EXAMINING RELATIONSHIPS BETWEEN INDIVIDUAL, ORGANIZATIONAL FACTOR AND KNOWLEDGE SHARING BEHAVIOR

 \mathbf{BY}

AIN ZURAINI BINTI ZIN ARIS

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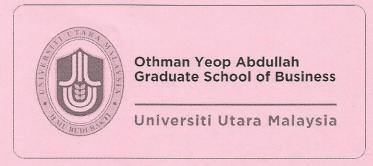
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Abstract

This study examines the direct relationship between sense of self-worth, attitudes, perceived organizational incentives and management support and knowledge sharing It also examines the moderating effect of interpersoanl trust on the relationship between sense of self worth, attitudes, perceived organizational incentives and management support and knowledge sharing behavior. A total of 148 questionnaires were distributed on site to participants who had agreed to participate in this study. Hypotheses for direct effect were tested using multiple regression analyses and hypotheses for interacting effect were tested using hierarchical multiple Results showed that only sense of self-worth and attitudes were significantly positively associated with knowledge sharing behavior. Furthermore, results from hierarchical multiple regressions showed that interpersonal trust did not moderate the relationship between sense of self-worth and knowledge sharing behavior, between attitude and knowledge sharing behavior, between perceived organizational incentives and knowledge sharing behavior and between management support and knowledge sharing behavior. Implications of the findings, potential limitations and directions for future research are discussed.

Keywords: Knowledge Sharing Behavior, Sense of Self-worth, Attitude, Organizational Incentives, Management Support.

Abstrak

Kajian ini mengkaji hubungan langsung antara rasa nilai kendiri, sikap, persepsi terhadap insentif organisasi dan sokongan pengurusan terhadap gelagat perkongsian pengetahuan. Ia juga mengkaji kesan kepercayaan antara perorangan sebagai penyederhana dalam hubungan antara rasa nilai kendiri, sikap, persepsi terhadap insentif perorangan dan sokongan pengurusan dan gelagat perkongsian pengetahuan. Sebanyak 148 soal selidik telah diedarkan secara sendiri kepada peserta kajian yang telah bersetuju untuk terlibat dalam kajian ini. Hipotesis ke atas kesan langsung dan kesan perantara diuji menggunakan analisis regresi berganda manakala hipotesis bagi kesan interaksi diuji menggunakan analisis regresi berganda bertingkat. Dapatan kajian menunjukkan bahawa hanya rasa nilai kendiri dan sikap sahaja yang mempunyai hubungan yang positif dan signifikan dengan gelagat perkongsian pengetahuan. Seterusnya, keputusan daripada analisis regresi bertingkat tidak bahawa kepercayaan antara perorangan menunjukkan berperanan penyederhana dalam hubungan antara rasa nilai kendiri dan gelagat perkongsian pengetahuan, dalam hubungan antara sikap dan gelagat perkongsian pengetahuan, antara persepsi terhadap insentif organisasi dan gelagat perkongsian pengetahuan, dan sokongan pengurusan dan gelagat perkongsian pengetahuan. dapatan kajian, limitasi, dan cadangan kajian pada masa hadapan turut dibincangkan.

Kata Kunci: Gelagat Perkongsian Pengetahuan, Rasa Nilai Kendiri, Sikap, Insentif Organisasi, Sokongan Pengurusan.

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List of Abbreviations

SME Small Medium Enterprise

ACCIM Associated Chinese Chambers of iif Commerce and Industry of

Malaysia

KM Knowledge Management

TPB Theory of Planned-Behavior

SPSS Statistical Package for the Social Science

KSB Knowledge Sharing Behavior

IF Individual Factors

OF Organizational Factor

IT Interpersonal Trust

VIF Variance Inflation Factor

KMO Keiser-Meyer-Oklin

ANOVA Analysis of Variance

HRM Human Resource Management

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CHAPTER 1

INTRODUCTION

1.1 Background of the Study

Knowledge if managed effectively and applied accordingly would be a useful tool in transforming the business and sustain the competitive advantage. As argued by several authors, organizations that applied knowledge management as tools could gain competitive advantage through the generation and the use of new knowledge at the workplace (Alvesson, 2004; Harrison & Kessels, 2004).

However, knowledge primarily derived from people, and thus, managing knowledge among workforce would be critical to the organizations. The efforts in improving the use of knowledge does not only concern in better exploration of existing sources of knowledge management at workplace but also providing the work environment that can encourage the workers to distribute their knowledge to others. This kind of knowledge can be describes as tacit or explicit type of knowledge.

Knowledge sharing behavior can be considered as the foundation and most important part of knowledge management (Bock & Kim, 2002; Ahmad, Sharom & Abdullah, 2006). The possessed of knowledge among the individuals and the contribution of person's knowledge into organizational knowledge is depends on the worker's knowledge sharing behavior (Nonaka & Konno, 1998). Inherently, the knowledge exchange from a person or one unit of the organization to another are

importantly promotes to the organizational performances and productivity (Argote, Ingram, Levine & Moreland, 2000).

Indeed, knowledge is the significant assets of the workers to serve the organizations in meeting its mission and vision. The right use of worker's knowledge through knowledge sharing behavior could benefit the organizations to strengthen its stand within the industry. The success of knowledge-work-environment is possible upon beliefs on knowledge workers offering something specific (Alvesson, 2001). After all, the organizations should better manage the knowledge at workplace so that it will generate the positive output not only to the workers but also to the organization as a whole.

1.2 Problem Statement

For Malaysian SMEs, managing knowledge has becoming more critical. Apart from confronting with tight competition with large companies, many SMEs are facing with high turnover issues. Based on a survey conducted by The Associated Chinese Chambers of Commerce and Industry of Malaysia (ACCIM) (2012) where 62% of the respondents agreed that shortage and difficulty in hiring employees are the main problems faced by many SMEs. In addition, many SMEs are facing with challenges to attract, retain and motivate the best and high qualified employees (Beaver & Hutchings, 2005).

Issues of turnover have made many organizations including SMEs to realize that having knowledge workers per say would not be enough unless their knowledge

is shared with the rest of the employees in the organization. Though SMEs acknowledge that knowledge sharing might be the best option in sustaining the business and to overcome the issue of high turnover rate, many are still struggling to encourage their employees to share knowledge. Besides, it is not realistic to expect all employees to willingly share their knowledge without considering the results of their action. In the literature, reasons for why employees are reluctant to share their knowledge with others have been put forward and among them include lacking of motivation, assuming it as a threat to their status, feeling uneasy of losing the knowledge that distinguishes them with others, scared of losing some power and decrease the chances of personal success such as compensation and promotion and have to take on additional workload (Husted, Michailova, & Minbaeva, 2005; Lin, 2007; Samieh & Wahba, 2007; So & Bollojju, 2005)

Reviewing the literature has shown how individuals will be more willing to contribute in knowledge sharing activity if they are guaranteed that their action is worthy, if they could get the recognition from sharing the knowledge with others, if they can gain economic benefits like pay increase, job security, bonuses or career development, and if the knowledge that been shared will be used (Al-Alawi, Ismail, Al-Marzoki, Yousif, Mohammed & Fraidoon, 2007; Bart & Ridder, 2004).

In a study conducted by Lin (2007b) on 172 employees from 50 large organizations in Taiwan, they found that feeling of enjoyment in helping other workers and sense of self-worth were strongly related with worker willingness in sharing the knowledge. This result indicates that employees who have better sense of

self-worth and enjoy helping others tend to have strong motivation in sharing knowledge with others.

Apart from individual factors, organizational factors such as management support and incentives provided by the organization were also found to be related with the willingness of employees to share their knowledge. For example, several studies have shown how management support increased the level and quality of workers' knowledge exchange (Lee, Kim & Kim, 2006; Kulkarni, Ravindran & Freeze, 2006). Similar finding was also found in a study conducted by Liebowitz (2003) and Nelson, Sabatier and Nelson (2006) where acknowledgement and rewards have been found to encourage knowledge sharing behavior and indirectly assist in building supportive work culture. In other study, Yao, Kam and Chan (2007) found that lack of organizational incentives have been found to be the main barrier for knowledge sharing activity within the organization.

Interpersonal trust is another factor that has been found to contribute to knowledge sharing activity among employees. In past studies, interpersonal trust was found to be positively related to knowledge sharing (Bakker, Leenders, Gabbay, Kratzer & Van, 2006; Chowdury, 2005; Mooradian, Renzl & Matzler, 2006). The findings indicate that employees will share more knowledge with their colleague if they believed that their colleague is honest and can be trusted.

Though several factors have been put forward in the literature that were related to knowledge sharing behavior in the organization, it is still not known what factors might influence Malaysian Bumiputra SMEs' employees to share knowledge

with others as there are limited empirical studies investigating on knowledge sharing behavior in this context. Therefore, this study is conducted with the intention to explore whether individual factors such as sense of self-worth and attitude, and organizational factors like perceived organizational incentives and management support would contribute to knowledge sharing behavior as suggested by the literature. Apart from that, the study also investigates the role of interpersonal trust as a moderator.

1.3 Research Questions

Based on the above discussion, the central research question is "what factors might influence knowledge sharing behavior among SME's employees." Specifically, the research is interested to address the following questions:

- 1. Does the sense of self-worth related to knowledge sharing behavior among SME's employees?
- 2. Does attitude related to knowledge sharing behavior among workers at SME?
- 3. Does perceived organizational incentives related to knowledge sharing behavior among workers at SME?
- 4. Does management support related to knowledge sharing behavior among workers at SME?
- 5. Does interpersonal trust moderate the relationship between sense of self-worth and knowledge sharing behavior?
- 6. Does interpersonal trust moderate the relationship between individual attitude and knowledge sharing behavior?

- 7. Does interpersonal trust moderate the relationship between perceived organizational incentives and knowledge sharing behavior?
- 8. Does interpersonal trust moderate the relationship between management support and knowledge sharing behavior?

1.4 Research Objectives

The study attempts to address the following objectives:

- to investigate the relationships between sense of self-worth and knowledge sharing behavior;
- 2. to examine the relationships between attitudes and knowledge sharing behavior;
- 3. to determine the relationships between perceived organizational incentives and knowledge sharing behavior.
- 4. to examine the relationships between management support and knowledge sharing behavior; and
- 5. to investigate whether interpersonal trust moderate the relationship between sense of self-worth, attitudes, perceived organizational incentives, management support and knowledge sharing behavior.

1.5 Significance of the Study

Realizing that there is still limited study on knowledge sharing issues within the SMEs especially in the Malaysian context, it is a hope that the findings from this study will benefits both the scholars and practitioners. The findings will not only enrich the literature on knowledge sharing behavior, it can also make effective contribution of the best way to plan for encouraging knowledge sharing behavior among the employees within the organizations. Though the study was conducted at Malaysian Bumiputra SMEs, the broader contribution extends beyond the Malaysian SMEs context.

1.6 Scope and Aim of Study

The main focus of this study is to investigate which of the factors tested in this study that might influence knowledge sharing behaviors. Two independent variables were tested in this study namely, individual and organizational factors. Individual factors were measured by two dimensions which are sense of self-worth and attitudes, while organizational factors were measured by perceived organizational incentives and management support. The study also tested interpersonal trust as a moderator. The study, which was a cross-sectional study, involved a survey of 148 employees from 39 Bumiputra SMEs located in the state of Kedah.

1.7 Organization of Chapters

This chapter is the first of five chapters in this thesis. Chapter 2 gives general review of the literature on knowledge sharing behavior. The concept of knowledge, knowledge management and knowledge sharing behavior are also presented. Discussion in Chapter 2 continues with past empirical findings on factors that might influence knowledge sharing behavior such as sense of self-worth, attitude, perceived organizational incentives and management support. The chapter concludes with the development of the research hypotheses.

Chapter 3 describes the method for the study, namely the research design and procedure. The chapter reports the selection of participants, sample types and size, and the development of questionnaire for the research. Chapter 3 ends with a brief description of the strategies and procedures that were used to analyze data collected from the survey.

Chapter 4 reports the results and their interpretation for the study. There are reports of the descriptive statistical analysis, factor analysis, bivariate correlation analysis, and regressions analysis. The results are summarized in a number of tables to facilitate interpretation. The findings were compared to those found in the past research reviewed in Chapter 2. New findings were also discussed.

Chapter 5, the final chapter, presents the general discussions and conclusion of the study and their implications for both researchers and practitioners. Chapter 5 concludes with the limitations of the study and some suggestions for future research.

CHAPTER 2

LITERATURE REVIEW

2.1 Introduction

This chapter explores the literature from previous studies on knowledge sharing behavior, sense of self-worth, attitudes towards knowledge sharing behavior, perceived organizational incentives, management support as well as the interpersonal trust. Reviewing the literature is necessary to formulate the research framework and hypotheses. This chapter concentrates on the definitions, conceptual issues and theoretical considerations.

2.2 Knowledge and Knowledge Management

Knowledge is referred to as familiarity towards something or someone that could be included information, descriptions, facts or skills get from the experiences or education. Knowledge can be referred to as the theoretical or practical understanding of a subject. Knowledge are divided into implicit and explicit type of knowledge where implicit knowledge basically related to practical skill or expertise while explicit knowledge is kind of theoretical understanding on the subject which can be less formal and systematic (Stanley, 2002).

Knowledge management can be referred to as the approach of multidisciplined to achieve the objectives of the organizations through developing the better use of knowledge (Davenport, 1994). It includes the process of systematic and structured that organizing the corporate information to be retrieved easily, distribution and reuse in the whole organization. Basically, the focus of knowledge management is on the processes that include acquiring, creating and sharing the knowledge and it is supported by the cultural and technical foundations. Knowledge management is also an audit for the intellectual assets which bolds the unique sources and the critical functions that hinder the knowledge to flow in the better point of use. It avoids the intellectual assets from lose; find chances to enhancing decisions, products and services by add up intelligence, improving value and giving flexibility. Knowledge management is becoming demanded especially between business and industries from legal services. There are many organizations that recognize the value of encouraging organizational knowledge since the performance metrics from early adopters are compiling the substantial benefits gain from knowledge management. Thus, knowledge management consulting the services and technologies is in a state of high demand where the software of knowledge management is rapidly enlarged.

Knowledge management is increasingly becomes more important as it could drives the organizational success in facilitating the decision-making capabilities, develop learning workplaces through making learning culture and stimulates the cultural change and innovation. It has three major components which contain people, processes and information. People refer to the individual that keep the knowledge and practice it and processes are where the individuals establish, capture, store, organize and share the knowledge. While information point out as the pieces of data and facts which individuals convert it into the application of as knowledge. Accordingly, it is

crucial that the three components stated previously to be considered before setting up the knowledge management program.

2.3 Knowledge Sharing and Knowledge Sharing Behavior

Knowledge sharing is one of the most significant aspects in the process of making the right knowledge accessible to the right person at the right time as the majority of the knowledge management initiatives depend on it (Frost, 2013). Knowledge sharing can be interpreted as push or pull. The recent is when the knowledge employees are actively explores out the knowledge sources such as through the cooperation with colleagues and library search. It is depends on the habit and readiness of the knowledge employees to find out and be approachable to the sources of knowledge. The right culture or incentives have to be present to support it.

The department of human resources can be seen to expose the knowledge sharing in a various way where in an internalized way is that they can pose as a mediator among staff and their objection to engage in the activity of knowledge sharing at the workplace. Yahya and Goh (2002) mentioned that the direct impact of the human resources objectives with the knowledge management systems in many ways such as by training programs, performance appraisals, decision making, financial rewards or compensation. Human resources departments have the capacity within company to assist frame morale of the staff; motivation and trust which could help impress the worker to adopt the shared working practices. Law and Ngai (2003) took out the thorough empirical research by studied 134 organizations to figure the benefits of knowledge sharing activity beyond the industries which includes

manufacturing, wholesale and retail. The results indicated that knowledge sharing and learning instructions and personnel's behaviors are strongly related in improving the processes of the business and productivity. Knowledge sharing could likely to accomplish healthier competition between the parties and boost the quality and standard of workers. Generally, the application of knowledge sharing approach in Malaysia could inspire the levels of widespread communication by internal or external, support, value, understanding and awareness in a way to improve the clarity of the organization's issues.

On the other hand, knowledge sharing behavior is more about 'share' manner from everybody to share what they know. In the literature, several authors have defined knowledge sharing behavior as the process of involving knowledge exchange or exchanging of information or assistance between individuals and groups of people (Connelly & Kelloway, 2003; Davenport & Prusak, 1998). Members of the organizations that believed that they would gain extrinsic benefits like promotion, monetary rewards or educational chances from their knowledge sharing behavior tend to evolve the more positive attitude on knowledge sharing (Bock & Kim, 2002; Kankanhalli, Tan & Wei, 2005). Further, the workers that believe that they would get intrinsic benefits like social acknowledgement, power or self-satisfaction could also have enjoyment in knowledge sharing (Kankanhalli, Tan & Wei, 2005). Organizational structure also must be taken into considerations in the knowledge sharing context especially when relates on the incentives and rewards system directives to the other (Yang & Chen, 2007).

Interpersonal trust which is an implied set of beliefs has been identified as the significant factor influencing knowledge sharing (Gefen, Karahanna & Straub, 2003). The achievement of knowledge sharing depends on the supply and quality of the interaction among learners and the ability and willingness of practicing the knowledge (Lagerstrom & Anderson, 2003). Knowledge sharing is depends on the interaction and connection among people. Without important interaction, learners would be disturbed easily or feel misunderstanding with other person. The firm can construct new values to enhance its development and hike by knowledge sharing (Bock & Kim, 2002). These values were then proved to have the positive impact on generating new services or products by interactions between departments (Armbrecht, Chapas, Chappelow, Farris, Friga, Hartz, McIlvaine, Postle & Whitwell, 2001; Tsai, 2000).

Workers are more affected through the work environment when creative ideas are made in the organizational context. The increase of team support within an organization will shape an environment where workers can receive inspiration and compliment from their company or supervisors in order to expand further climate of innovation in the organization in reassuring the innovative behavior and creativity of workers more appropriately (Montes, Moreno & Fernandez, 2004). According to these conditions, organizational and individual factors affected knowledge sharing and innovation (Yu, Yu & Yu, 2013).

The transformation from managing knowledge against managing workers as the right owners of knowledge displays the consequences of human resource practices in the knowledge sharing context (Kelloway, 2000). A work practice that includes work design can affect worker's knowledge sharing behavior (Cabrera & Cabrera,

2005). However, the success of knowledge management initiatives are strongly depends on the person knowledge sharing (Yi, 2009; Wang & Noe, 2010). For example, there will be finite effects of the application on technology infrastructure if no support was given for knowledge sharing practices on organizational and individual levels (De & Fahey, 2000). Hence, it is crucial to further assess the antecedents for knowledge sharing as it turns up at the worker level (Felin & Foss, 2006; & Felin & Hesterly, 2007).

Appealing in the informal knowledge sharing processes from one individual to other person needs a high level of social and personal tenderness. More tacit knowledge could be shared when the personal interactions take place during lunch hours or any times (Yi, 2009; Taminiau, Smit & Lange, 2009). The issues discussed do not need a specific problem explanation or introduction where there might be a type of related chatter. Thus, personal interactions are an imperative part of knowledge sharing behavior between workers especially by their boundlessness.

2.4 Factors Influencing Knowledge Sharing Behavior

2.4.1 Individual Factors

2.4.1.1 Sense of Self-Worth

Sense of self-worth is defined as what people thought about themselves which is the basic of the self-concept that encompasses the positive or negative evaluations of the self like how they feel about it by self (Smith & Mackie, 2007). Sense of self-worth is about the psychology reflecting on the evaluation of person's emotion on his or her own worth. It is the intuition of one person which appears to be an attitude

toward the self. Self-worth describes as an emotional evaluation like pride, triumph, despair and shame (Hewitt, 2009). For example is, "I am competent". It is normally comes from the person's inside and become the foundation of people's ability to belief in their self.

In the context of knowledge sharing behavior, relevant feedback is very demanding in the ongoing interaction setting. Usually, individuals will conclude that their way of thinking and behavior are right when other workers respond in the way that they have anticipated. This process of reflected evaluation that contributes to the development of self-worth is strongly influenced by sense of competence and firmly tied to the effective performance (Bock, Zmud, Kim & Lee, 2005). Thus, Bock, Zmud, Kim and Lee (2005) found that workers that able to get the feedback on knowledge sharing action are more likely to recognize how many actions that have devoted to the other's work and enhancement of organizational performance. Accordingly, it could help in increasing sense of self-worth when they understand it which in turn would deliver these workers that are more likely to flourish the favorable attitudes toward knowledge sharing than workers that are unable to see the linkages of it.

2.4.1.2 Individual Attitude

Aiken (2000) stated that attitude is a learned disposition which determines the positive or negative feedback to the specific situation, person, object or institution. Consequently, attitude demonstrates on what the person is and thus, it is determining the factors of the person's attitude and affords individuals with the framework within

which to illustrate the world and organize new experiences (Ogunmoye, 2008). The attitude of a person towards a behavior is determined according to their beliefs on the importance of performing it. The definition of attitudes also vary as the predisposition of mental to act which is expose by evaluating certain entity with some degree of favor and disfavor.

2.4.2 Organizational Factors

2.4.2.1 Perceived Organizational Incentives

Meyer and Meyer (2009) viewed organizational incentives as parts of the motivational factors which could be able to improve the performance that is directed in gaining the organizational reward. Organizational incentives also could be defined as the non-financial inducement that intend to influence the future behavior of the workers by rewards or other motivational factors that is obtain from the worker's integration in the framework of the organization with the corresponding impact on employees and their behavior (Milkovich & Newman, 2001). Eventually, the aim of incentives at organizational context is providing value in term of money or any rewards which hopefully it could drive the workers to contribute in organizational success (Armstrong, 2013). Philip and Marshall (2010) defines organizational incentives in a theoretical foundations where they saw that organizational incentives itself motivate the behavior of the person. Thus, they argue that the organization is well served through the socially organizational incentives and individual financial incentives combination in a long term for organizational survival. From the literature, monetary incentives and rewards are the vital factors cited most regularly when it comes to the decision as to whether to share or not (Hahn & Subrami, 2000; Ruppel &

Harrington, 2001; Bartol & Srivastava, 2002, Dignum & Dignum, 2003; Syed-Ikhsan, 2004; Riege, 2005). The typical issue related with knowledge sharing is that the workers are not being rewarded for their involvements, hence discouraging them to participate. It is possible to increase the worker's participation through increasing the incentives linked with sharing the knowledge with others (Cabrera & Cabrera, 2002). Both non-monetary and monetary incentives are pivotal to make the passion with knowledge sharing practices (Cheng, Ho & Lau, 2009).

2.4.2.2 Management Support

In general, management support is referred to active involvement by the management team in supporting lower-level worker's activities (Igbaria, Zinatelli, Cragg & Cavaye, 1997; Ramamurthy & Premkumar, 1995). The management support is the encouragement from the top level management with the allocation of the resources (Guimaraes & Igbaria, 1997). Management support also can be referred to a situation when the high level managers are in a corporation intervention to assist the lower-level workers to develop the required behavior. It is also referring to the perception that the person has the available assistance from the person comes from the management team.

Workers could focus on the organization's commitment to them if managerial teams are concerned with their worker's commitment to the organization. It is likely described as give and take where both parties are in the win-win situation. The organization presents as the significant source of socio emotional resources for workers like caring and respect and tangible benefits like medical benefits and wages

(Rhoades & Eisenberger, 2002). It is actually helps in meeting the worker's needs for approval; esteem and affiliation when there are getting the management support in the organization (Rhoades & Eisenberger, 2002). Workers will indirectly motivated to take an active interest to the intervention held by the organization such as in the context of knowledge sharing activity in the regard where the positive valuation from the organization could provide the indication that increased effort will be rewarded and acknowledged.

2.5.3 Interpersonal Trust

Trust is defined as an expression of faith and confidence that a person or an institution will be fair, honest, trustworthy, decent, experienced and non-threatening (Caldwell & Clapham, 2003; Carnevale, 1995). Accordingly, individual's trust in their co-workers stems from the awareness of their interaction with co-workers such as ethics, morality, integrity, reliability, faith, honesty and competence (Garcı'a-Marza', 2005; Morgan & Hunt, 1994).

2.6 Research Framework

The research framework shown in Figure 2.1 is developed based on the discussion of literature on knowledge sharing behavior (Bock, Zmud, Kim & Lee, 2005; Chennamaneni, 2006; Tan & Zhao, 2003; Yilmaz & Hunt, 2001). The research framework for this study shows the relationship between sense of self-worth, attitudes, perceived organizational incentives, management support and knowledge sharing behavior. In this study, sense of self-worth, attitudes, perceived organizational

incentives and management support are the independent variables, while knowledge sharing behavior is the dependent variable. This research framework is also testing interpersonal trust as the moderating variable in the relationship between sense of self-worth, attitudes, perceived organizational incentives and management support and knowledge sharing behavior.

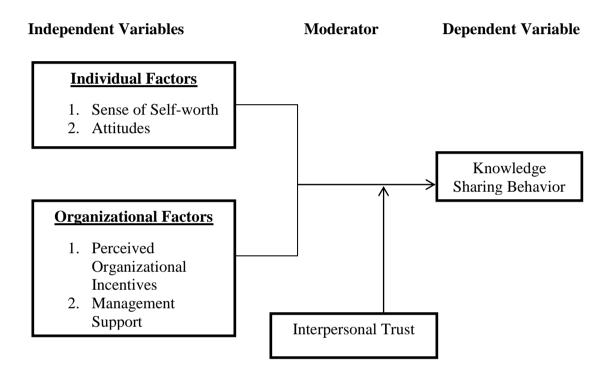


Figure 2.1 Research Framework

2.7 Development of Hypotheses

2.7.1 Relationship between Sense of Self-worth and Knowledge Sharing Behavior

Past studies on sense of self-worth and knowledge sharing behavior have shown mixed results. Joseph and Jacob (2011) found that sense of self-worth did not enhance people's intention in sharing the knowledge when tested on 125 IT knowledge workers in India. The subjective norm did not generate the self-worthiness

of workers to share the knowledge even though it is proved in the study that it could generate the intention to perform a task. In other study, Chow and Chan (2008) also found that sense of self-worth has no direct effect on knowledge sharing behavior when tested on 190 managers from Hong Kong firms. Similar findings were also found in a study conducted by Bock, Zmud, Kim and Lee (2005) where self-worth was not positively influence the knowledge sharing behavior.

In other studies, sense of self-worth was found positively related to knowledge sharing behavior. For example, in a study conducted on 154 managers from 27 Korean organizations, Bock, Zmud, Kim and Lee (2005) found that workers who hold high sense of self-worth towards knowledge sharing incline to share their knowledge with others.

Similar findings were also found in a study conducted by Ramayah, Yeap and Ignatius (2013). In their study on 447 academicians in 10 public universities scattered throughout Malaysia, they found that individual's sense of self-worth is positively related to the subjective norm to share their knowledge with others. Huber (2001) argued that those employees who have high sense of self-worth are more likely to be attentive towards other's expectations in regards to the knowledge sharing behaviors and practice at the workplace.

Based on the above discussion, the following hypothesis is proposed: H1: Sense of self-worth is positively related to knowledge sharing behavior.

2.7.2 Relationship between Individual Attitudes and Knowledge Sharing Behavior

Past studies have shown how one's attitude related to knowledge sharing behavior. For example, Bock Zmud, Kim and Lee (2005) found that attitude was significantly positively related to the knowledge sharing behavior when tested on 154 managers from 27 Korean organizations. Similar findings were also found in a study conducted by Kolekofski and Heminger (2003) on 34 % response rate of faculty members and supporting staff at the United State Air Force Institute of Technology (AFIT) where attitude was found positively related to knowledge sharing behavior. In other study, attitude was also found to be one of the factors that influence the intention to share knowledge when tested on 286 physicians from 13 hospitals in Korea (Ryu, Ho & Han, 2003).

Based on the above discussion, the following hypothesis is proposed: H2: Individual attitude is positively related to knowledge sharing behavior.

2.7.3 Relationship between Perceived Organizational Incentives and Knowledge Sharing Behavior

Studies on perceived organizational incentives and knowledge sharing behavior have shown mixed results. In one study conducted by Bock, Zmud, Kim and Lee (2005), extrinsic rewards were found negatively related to knowledge sharing behavior when tested on 154 managers from 27 Korean organizations. In other study, Chennamaneni (2006) also found that perceived organizational incentives does not

support its relationship with knowledge sharing behavior when tested on 180 respondents of full time workers enrolled in MBA and senior level classes in the college of business at University of Texas Arlington. In his study, perceived organizational incentives demonstrated a weak positive relationship on the knowledge sharing behavior among workers when motivators such as perceived benefits, perceived reputation enhancement, perceived loss of knowledge power and perceived enjoyment in helping others were included in the research model.

However, in other study, extrinsic incentives have been found to positively related with knowledge sharing behavior. For example, in a study conducted on 424 former interns of Certified Management Accountants in United State has shown how perceived organizational incentives increased knowledge sharing behavior (Cockrell, Stone & Wier, 2009).

Similar findings were also found in a study conducted by Chay, Menkhoff, Loh and Evers (2004). In their study on 262 academicians, administrators and students from tertiary educational institution in Singapore, they found that organizational incentives were positively related to the knowledge sharing. Quigley, Tesluk, Locke and Bartol (2007) study also found group incentives have a greater positive relationship on knowledge sharing behavior and this effect is stronger when sharing norms are strong when tested on 120 undergraduates who enrolled in upper-level management courses at Atlantic university.

Based on the above discussions, the following hypothesis is proposed:

H3: Perceived organizational incentives are positively related to knowledge sharing behavior.

2.7.4 Relationship between Management Support and Knowledge Sharing Behavior

Reviewing the literature on management support and knowledge sharing behavior has shown mixed results. A study conducted by King and Marks (2008) on 169 employees in United State department of defense has shown negative relationship between management support and knowledge sharing behavior.

Though there is negative relationship between management support and knowledge sharing behavior, most of the studies conducted in the past have shown positive relationship. For example, a study by Connelly and Kelloway (2003) on 126 undergraduates in MBA or MPA courses at four Canadian universities in two provinces have shown that management's support is significantly positive associated with knowledge sharing behavior.

Therefore, the following hypothesis is proposed:

H4: Management support is positively related to knowledge sharing behavior.

2.7.5 Interpersonal Trust as Moderator

Studies on interpersonal trust as a moderator in the context of knowledge sharing are limited. Most studies in the past tested interpersonal trust as independent variables instead of as a moderator with most studies showed positive relationship between interpersonal trust and knowledge sharing behavior. For example, Chang and Chuang (2011) conducted a study on 318 persons through website and found that interpersonal trust had a positive relationship on the quality but not quantity of shared knowledge. The involvement of the participants had the moderating influence of interpersonal trust towards the relationship with the knowledge sharing. In one study conducted on 131 utility workers at Austrian company has found that there are significant effects between interpersonal trust and knowledge sharing behavior among coworkers (Renzl, Matzler & Mader, 2005).

Based on the above discussion, the following hypotheses are proposed:

H5: Interpersonal trust moderates the relationship between sense of self-worth and knowledge sharing behavior.

H6: Interpersonal trust moderates the relationship between attitudes and knowledge sharing behavior.

H7: Interpersonal trust moderates the relationship between management support and knowledge sharing behavior.

H8: Interpersonal trust moderates the relationship between perceived organizational incentives and knowledge sharing behavior.

2.8 Conclusions

The chapter has discussed on the conceptual definitions, variable's dimension and discussion of the previous findings on knowledge sharing behavior. Also, eight hypotheses have been developed to be tested in this study. In the next chapter, Chapter 3, method of the study is discussed.

CHAPTER 3

METHOD

3.1 Introduction

Chapter 3 describes the method for the study. In this chapter, the sample design, survey materials used in this study, procedure for collecting data and the research measures are described. The chapter ends with strategies for analyzing the data.

3.2 Research Design

The study employed quantitative research design. Quantitative design is a systematic empirical approach to investigate social phenomena that used statistical or mathematical based methods that allow to test the relationship between the research variables (Given, 2008; Kreuger & Neuman, 2006). Therefore, quantitative research design is more suitable for this study as it allows the testing of relationship between variables using statistical methods. This corresponds with the primary objective of this study, which is to examine the relationship between sense of self-worth, attitude, perceived organizational incentives, management support and knowledge sharing behavior and the moderating effect of interpersonal trust on the relationship between sense of self-worth, attitude, perceived organizational incentives, management support and knowledge sharing behavior.

In this study, the unit of analysis is at the individual level (SMEs' employees) and the primary data for this study was collected through distribution of questionnaire. Respondents' perceptions about sense of self-worth, attitudes, perceived organizational incentives and management support become the basis for understanding the intention to share knowledge. Therefore, it is suitable to use individual as a unit of analysis to test all the variables shown in the research framework.

The study was cross-sectional, where the data was collected at one point of time. Cross-sectional study is cheaper and save time. Also, it allows examining many factors and outcome in a single study.

3.3 Population and Sampling

3.3.1 Population

Population for this study includes all the employees from all types of sector in Bumiputra SMEs in Kedah. Based on the statistics given by SME Corporation official website (http://www.smecorp.gov.my), there are 324 Bumiputra SMEs located in the state of Kedah. However, the statistics did not specify the total number of employees for each of the SMEs. Table 3.1 presents the total number of Bumiputra SMEs base on the sectors.

Table 3.1 *Number of Bumiputra SME by Sectors*

| Sectors | Total number of SME |
|--------------------------------------|---------------------|
| Manufacturing (Including Agro-Based) | 109 |
| Manufacturing Related Services | 17 |
| Services (Including ICT) | 109 |
| Construction | 44 |
| Primary Agriculture | 12 |
| Mining and Quarrying | 1 |
| Others | 32 |
| Total | 324 |

3.3.2 Sample Size

Since the total number of employees was not known, the researcher follow Roscoe's (1975) rule of thumb where a sample that is larger than 30 and less than 500 is appropriate for most research.

3.3.3 Sampling Technique

Out of 324 Bumiputra SMEs, 220 SMEs from various sectors were chosen for this study. A total of 104 SMEs were excluded from the list because of difficulty of access to locations. The location of the companies was important for the purpose of scheduling for appointments and making repeated visits to the companies, as the survey was conducted on site. Another 56 SMEs were deleted from the list as they were no longer in business. Out of 164 remaining SMEs, only 39 of them were willing to participate in the study.

3.4 Operational Definitions and Measurements

3.4.1 Knowledge Sharing Behavior

Knowledge sharing behavior is the dependent variable in this study. Knowledge sharing behavior is operationalized as the process of involving knowledge exchange between individuals and groups of people (Davenport & Prusak, 1998). As shown in Table 3.2, knowledge sharing behavior was measured by 6-items developed by Bock, Zmud, Kim and Lee (2005). This 6-item knowledge sharing behavior scale has been shown to be both reliable and valid for measuring knowledge sharing behavior. Several studies have reported that the scale has adequate internal consistency (the Cronbach alphas ranging from .92 to .93) (Bock, Zmud, Kim & Lee, 2005; Lee, 2001; Wasko & Faraj, 2005). Based on a five-point scale whereby, 1 = strongly disagree, and 5 = strongly agree, participants rated their degree of agreement with the knowledge sharing behavior statements.

Table 3.2 Knowledge Sharing Behavior Items

| Variable | Operational definition | Items | Authors |
|---|---|--|------------------------------------|
| Knowledge Sharing Behavior (Dependent) | The process of involving knowledge exchange | I shared factual knowledge (knowwhat) from work with my coworkers. | Bock, Zmud, Kim & Lee (2005) |
| (Dependent) | between individuals and groups of people. | 2. I shared business knowledge about the customers, products, suppliers and competitors with my coworkers. | |
| | | 3. I shared internal reports and other official documents with my coworkers. | |

- 4. I shared work experiences with my co-workers.
- 5. I shared expertise from education or training with my co-workers.
- 6. I shared know-why knowledge from work with my co-workers.

3.4.2 Individual Factors

Individual factors are the independent variables. In this study, individual factors were measured by two dimensions, sense of self-worth and attitudes. Sense of self-worth is operationalized as an emotional evaluation like pride, triumph, despair and shame (Newman & Newman, 1975). Sense of self-worth was measured by 5-items that were adapted from Bock, Zmud, Kim and Lee (2005). Attitude towards knowledge sharing was measured by 8-items developed by Cheng and Chen (2007). Both of the scales have adequate internal consistency (the Cronbach alphas ranging from .93 to .94) (Bock, Zmud, Kim & Lee, 2005; Cheng & Chen, 2007; Fishbein & Ajzen, 1975).

Participants rated their degree of agreement with the sense of self-worth and attitudes toward knowledge sharing statements based on five-point scale whereby, 1 = strongly disagree, and 5 = strongly agree. Table 3.3 shows the sense of self-worth and attitude towards knowledge sharing items used in this study.

Table 3.3 *Individual Factor's Items*

| Variable | Dimensions | Operational definitions | I Items | | Authors | |
|---|-----------------------------------|--|---------|---|------------------------------------|--|
| Individual Factors (Independent). | Sense of self- worth | Emotional evaluation like pride, triumph, despair and shame. | 1. | Sharing my knowledge would help other members in the organization solve problems. | Bock, Zmud, Kim & Lee (2005) | |
| | | | 2. | Sharing my knowledge would create new business opportunities for the organization. | | |
| | | | 3. | Sharing my knowledge would improve work processes in the organization. | | |
| | | | 4. | Sharing my knowledge would increase productivity in the organization. | | |
| | | | 5. | Sharing my knowledge would help the organization achieve its performance objectives. | | |
| | Attitudes towards knowledge | Predisposition of mental to act which is expose by evaluating | 6. | If I share my knowledge with other members, I feel very beneficial. | Cheng & Chen (2007) | |
| | sharing behavior | certain entity with some degree of favor and disfavor. | 7. | If I share my knowledge with other members, I feel very pleasant. | | |
| | | | 8. | If I share my knowledge with other members, I feel very expressive. | | |
| | | | 9. | It is a wise move if I share my knowledge with other members. | | |
| | | | 10. | To me, sharing knowledge with my coworkers is harmful. | - | |

- 11. To me, sharing knowledge with my coworkers is good.
- 12. To me, sharing knowledge with my coworkers is worthless.
- 13. To me, sharing knowledge with my coworkers is wise.

3.4.3 Organizational Factors

Organizational factors are the second independent variables. Organizational factors are measured by two dimensions, perceived organizational incentives and management support. Perceived organizational incentives are operationalized as the motivational factors that can trigger performance which is directed at attaining organizational rewards (Meyer & Meyer, 2009). Perceived organizational incentives were measured by 5-item scale developed by Kankanhalli, Tan and Wei (2005).

The second dimension, management support is operationalized as the degree of general support provided by the top management team (Igbaria, Zinatelli, Cragg & Cavage, 1997). Management support was measured by 4-item scale adapted from Tan and Zhao (2003). Based on the previous study, both of the scales have adequate internal consistency (the Cronbach alphas ranging from .52 to .89) (Tan & Zhao, 2003; Lin, 2007a; Rahab, Sulistyandari & Sudjono, 2011).

In this study, participants rated their degree of agreement with perceived organizational incentives and management support statements based on five-point

scale whereby, 1 = strongly disagree, and 5 = strongly agree. Table 3.4 shows the perceived organizational incentives and management support items used in this study.

Table 3.4 *Organizational Factor's Items*

| Variable | Dimensions | Operational definition | | Items | Authors |
|--|---|--|----------|---|-------------------------------------|
| Organizational Factors (Independent) | Perceived organizational incentives | The motivational factors that can trigger performance which is directed at | 1. 2. | Sharing knowledge with my co-workers improves the likelihood of getting better work assignment for me. Sharing knowledge | Kankanhalli, Tan & Wei (2005) |
| | | attaining organizational rewards. | 2. | with my co-workers improves the likelihood of getting a promotion for me. | |
| | | | 3. | Sharing knowledge with my co-workers improves the likelihood of getting a higher salary for me. | |
| | | | 4. | Sharing knowledge with my co-workers improves the likelihood of getting bonus for me. | |
| | | | 5. | I expect to get more job security when I share knowledge with my co-workers. | |
| | Management Support | General support provided by top | 6. | Top managers think that encouraging knowledge sharing with colleagues is | Tan & Zhao (2003) |
| | | management. | 7. | beneficial. Top managers always support and encourage employees to share their knowledge with colleagues. | |
| | | | 8. | Top managers provide most of the necessary help and resources to enable employees to | |

| | share knowledge. |
|----|-----------------------|
| 9. | Top managers are keen |
| | to see that the |
| | employees are happy |
| | to share their |
| | knowledge with |
| | colleagues. |

3.4.4 Interpersonal Trust

In this study, interpersonal trust is the moderator variable. Interpersonal trust is operationalized as the willingness to rely on the word, action and decisions of other party (McAllister, 1995). Interpersonal trust was measured by 5-items scale developed by Yilmaz and Hunt (2001). The scale had adequate internal consistency (the Cronbach alphas ranging from .84 to .95) (Larzelere & Huston, 1980; Morgan & Hunt, 1994; Yilmaz & Hunt, 2001).

Participants rated their degree of agreement with interpersonal trust statements based on five-point scale whereby, 1 = strongly disagree, and 5 = strongly agree. Table 3.5 shows the interpersonal trust items used in this study.

Table 3.5
Interpersonal Trust's Items

| Variable | Operational definition | Items | | Authors |
|---------------------------------------|--|-------|---|-------------------------|
| Interpersonal Trust (Moderator) | The willingness to rely on the word, action, and decisions of other party. | 1. | I consider my co-workers as people who can be trusted. | Yilmaz & Hunt (2001) |
| | | 2. | I consider my co-workers as people who can be counted on to do what is right. | |
| | | 3. | I consider my co-workers as people who can be counted on to get the job done right. | |

- 4. I consider my co-workers as people whom are always faithful.
- I consider my co-workers as people whom I have great confidence in.

3.5 Layout of Questionnaire

All questionnaires were prepared in Bahasa Malaysia. Each participant in this survey received eight-page questionnaire (with cover letter attached). The questionnaire used in this study is shown in Appendix A.

The eight-page questionnaire consisted of five sections. Section 1 asked about knowledge sharing behavior and there are 6 items. Section 2 asked about participants' sense of self-worth and attitudes. There are 5 and 8 items respectively. In Section 3, there are 5 items on perceived organizational incentives and 4 items on management support. The final section of the questionnaire, Section 5, is the demographic variables.

3.6 Pilot Test

Pilot test which is also called as a pilot study is a small scale of initial research process study conducted to evaluate the feasibility, cost, time, adverse events and size of the statistical variability so as to predict the suitable sample size and brush up or improve the design of the current study related to full-scale research study performances (Hulley, 2007). The pilot test was conducted to find the validity and reliability of the questionnaire as to ensure the quality of the survey.

In this study, pilot test was conducted in the middle of August 2013. The questionnaire was distributed to 30 SMEs employees. There were no changes required to the questionnaire. The internal consistency reliabilities (Cronbach's Alpha) of the research measures from the pilot study are reported in Table 3.6. As shown in Table 3.6, all variables have satisfactory reliability values ranging from .75 to .86.

Table 3.6 The Cronbach's Alpha from the Pilot Study (n = 30)

| Variable | Number of Items | Cronbach Alpha |
|----------------------------|-----------------|----------------|
| Knowledge sharing behavior | 5 | .75 |
| Individual factors | 13 | .79 |
| Organizational factors | 9 | .84 |
| Interpersonal Trust | 5 | .86 |

3.7 Data Collection Procedures

Potential SMEs listed under the SME Corporation official website were contacted personally by telephone. Through the initial telephone conversation, the researcher introduced herself, explained the purpose of the call and asked for an appointment with SME's representative to conduct the survey. Once the respondent agreed to participate in the study on behalf of the firm, a date was fixed at the respondent's convenience.

During the survey session with the respondents, the researcher personally administered and collected the completed questionnaire. Each respondent was first briefed about the purpose of the survey. They were assured that all the information

given will remain confidential at all times and will be used for the study only. Respondents were then given 30 minutes to complete the survey forms. Each meeting lasted between 30 to 60 minutes.

3.8 Technique of Data Analysis

Data collected through the survey were analyzed using SPSS (version 19) program for Windows. Prior to primary analyses, the data were examined for data entry accuracy, outliers and distributional properties.

3.8.1 Factor Analysis

Factor analysis is conducted to describe the variation between variables in the context of few underlying but unobservable random variables which is namely as factors. The analysis could be viewed as the statistical procedure for grouping the variables into the subsets like the variables of each set that are mutually highly correlated whereas the variables in different subsets are relatively uncorrelated at the same time. Items that show the value of 'a-square' that is below than .5 will be omitted. First, the KMO (Keiser-Meyer-Oklin) of the variable will be determined in the factor analysis. Generally, the higher the cumulative variance is the better the correlation among items of the variables.

The factor analysis of this study contributed all of the items that measure the dependent variable (knowledge sharing behavior), independent variables (individual factors and organizational factors) and a moderator (interpersonal trust). According to

Pallant (2010), sample size is important before the factor analysis can be conducted. For this study, the sample was adequate to conduct factor analysis as the minimum number required is 100 (Barlett, Kotrlik & Higgins 2001; Hair, Anderson, Tatham & Black, 1998; Pallant, 2010).

3.8.2 Correlation Analysis

According to Pallant (2010), correlation analysis is a statistical technique that explained the strength and direction of the linear relationship between two variables. Therefore, in order to determine the strength of the relationship between the variables in this study, the correlation technique will be used to understand the direction of the relationship and amount of correlation between the dimensions of independent variables (sense of self-worth, attitudes, perceived organizational incentives and management support), moderating variable (interpersonal trust) and dependent variable (knowledge sharing behavior). Pearson correlation coefficients (r) can only take on values from -1 to +1. In order to interpret the value between 0 (no relationship) and 1 (perfect relationship), Cohen's (1988) suggestion will be followed. The relationship is said to be small when the value of r is between \pm 0.1 to \pm 0.29. The relationship is considered medium when r value is between \pm 0.30 to \pm 0.49, and the relationship is considered to be large when r value is between+ 0.50 and above.

3.8.3 Regression Analysis

Multiple regression analysis is a statistical technique that can be used to explore the relationship between a single dependent variable and a number of

independent variables (Pallant, 2010). Multiple regression analysis can be used to address variety of research questions. For example, it can tell the researcher how well a set of variables is able to predict a particular outcome, provide information about the model as a whole and the contribution of each of the variables that make up the model and it can statistically control for an additional variable when exploring predictive ability of the model. As for this study, multiple regressions is conducted to determine the predictive power of the independent variables (sense of self-worth, attitudes, perceived organizational incentives, management support) toward the dependent variable (knowledge sharing behavior).

3.8.4 Test of Moderation

Moderation happens in the regression analysis when the relationship among the two variables is depends on the third variable which is referred to as a moderator (Cohen, Cohen, Leona & West 2003). A moderator is an independent variable that affects the strength and / or direction of association between another independent variable and an outcome variable. To assess the effects of a moderating variable, hierarchical multiple regression is used. In the first step of the regression, the independent variables (including the moderator) are entered into the model as predictors of the outcome variable. The independent variables do not have to be significant predictors of the outcome variable in order to test for an interaction. In a separate step, an interaction term (the product of two independent variables, which represent the moderator effect) is entered. If the interaction term explains a statistically significant amount of variance in the dependent variable, a moderator effect is present.

3.9 Conclusions

This chapter has explained the research method and strategy for the study. It described how the sample of organizations was obtained, the selection of the respondents, development of the questionnaire, the research materials and the survey procedure. This chapter also briefly explains the adoption of several analyses such as correlation and regression analysis to test the research hypotheses. The results of the study are reported in Chapter 4.

CHAPTER 4

RESULTS AND DISCUSSIONS

4.1 Introduction

This chapter reports results of the study. The chapter begins by reporting the demographic characteristics of the respondents. It then presents the factor analysis and the bivariate relationship between the research variables. The chapter concludes with the regression analysis.

4.2 Demographic Characteristics of Participants

Detailed descriptive statistics of the participants' demographic characteristics are presented in Table 4.1. It is noted that 53.4% of the 148 participants in this survey were females. Most of the respondents (48.6%) were aged between 21 and 30 years old. Out of 148 participants, 37.2% had secondary education (11 years of schooling) and 41.9% earned a salary between RM901 and RM 1500. Most of the participants (33.1%) had served their organization between 1 to 3 years. Most of the SMEs (24.3%) participated in this study were other than construction, mining and quarrying, manufacturing (including agro-based), agriculture, manufacturing (related services) and manufacturing (including ICT).

Table 4.1 Demographic Characteristics of Participants

| Descriptions | Frequency | Percentage | |
|-------------------------------|-----------|------------|--|
| Gender: | | | |
| Male | 79 | 53.4 | |
| Female | 69 | 46.6 | |
| Age: | | | |
| Below 20 | 8 | 5.4 | |
| 21 - 30 | 72 | 48.6 | |
| 31 – 40 | 42 | 28.4 | |
| 41 – 50 | 20 | 13.5 | |
| 51 and above | 6 | 4.1 | |
| Marital status: | | | |
| Single | 56 | 37.8 | |
| Married | 87 | 58.8 | |
| Divorce | 5 | 3.4 | |
| Academic Qualification: | | | |
| PMR | 8 | 5.4 | |
| SPM | 55 | 37.2 | |
| Certificate | 37 | 25.0 | |
| Degree | 43 | 29.1 | |
| Others | 5 | 3.4 | |
| Salary: | | | |
| Below RM 900 | 32 | 21.6 | |
| RM 901 – RM 1500 | 62 | 41.9 | |
| RM 1500 and above | 54 | 36.5 | |
| No. of years in organization: | | | |

| Descriptions | Frequency | Percentage |
|--------------------------------------|-----------|------------|
| Less than 1 year | 47 | 31.8 |
| 1-3 years | 49 | 33.1 |
| 4 – 7 years | 21 | 14.2 |
| More than 7 years | 31 | 20.9 |
| Types of SME: | | |
| Construction | 12 | 8.1 |
| Mining and Quarrying | 6 | 4.1 |
| Manufacturing (Including agro-based) | 26 | 17.6 |
| Agriculture | 9 | 6.1 |
| Manufacturing (related services) | 35 | 23.6 |
| Manufacturing (Including ICT) | 24 | 16.2 |
| Others | 36 | 24.3 |

Note: Total respondents = 148

4.3 Data Screening

Data screening was done to ensure that the data collected is clean and ready for further statistical analysis. This is important so that the data are reliable, useful and valid to test the causal theory.

4.3.1 Missing Data

The analysis of missing data showed that there is .0% of missing values for all items in the questionnaire. Thus, there is no missing value in the data. The full results for missing value analysis were in the Appendix B.

4.3.2 Normality

Normality test was done to examine if the data is well-model with and without a normal distribution to compute the way that underlying random variable is distributing normally. The normality test is considered as prerequisite as sustaining the normal distribution of the data which is underlying the assumption of parametric testing in the statistical test's process. There are two ways to perform it which are graphically or numerically. Two of it has the advantages and disadvantages. However, the main focus is to figure out and presents the data's normality that is being used in this research. Normal Q-Q plot is used to detect the normality of the data. Data that follows a normal distribution will appear a straight line and linear in the normal probability plot (Coakes & Steed, 2003). The normality test was made for each variable and will be discussed accordingly through this section. The normal Q-Q Plot graph for the variables was attached in the Appendix B for review.

Based on the normal Q-Q Plot for every factor, the normality for some of the items in the variable are deviated from the line. However, it is not mean that there are abnormal. The chart might appear so due to the way the respondents chose the answer in the survey. In addition, it might cause the tabulation of the data which is not in stable strata as the same questionnaire may have different interpretation by different

respondent. The table of normality test below could be referred for further understanding on the normality test that been conducted on the variables. The test was prepared to the all items in the variables as shown in the Table 4.2 below so that the comparison can be made in the context of graphical and numerical while the charts shown previously are the normality test based on the factors.

Table 4.2 Normality Test for Knowledge Sharing Behavior, Individual Factors, Organizational Factors and Interpersonal Trust

| | Kolog | gorov-Smirn | 10V ^a | Shapiro-Wilk | | | |
|-----------------------------------|-----------|-------------|------------------|--------------|-----|------|--|
| | Statistic | df | Sig. | Statistic | df | Sig. | |
| Knowledge sharing behavior (KSB). | .124 | 148 | .000 | .972 | 148 | .004 | |
| Individual Factor (IF). | .100 | 148 | .001 | .976 | 148 | .012 | |
| Organizational Factor (OF). | .080 | 148 | .022 | .987 | 148 | .187 | |
| Interpersonal Trust (IT). | .113 | 148 | .000 | .964 | 148 | .001 | |

Note: a. Lilliefor Significance Correction

Table 4.2 showed the strong and acceptable relationship among items in the variables. Therefore, it is valid to be used as a basis to make the conclusions for this research. The table also exhibits the outcome from the two well-known normality tests which are Kolmogorov-Smirnov Test and Shapiro-Wilk Test. The Shapiro-Wilk Test is suits better for small sample size or less than 50 samples. However, it can also be done to the large sample size such as 2000. Due to this reason, Shapiro-Wilk test will be used as the numerical means to assess the normality. The data is considered normal if the sig. value from the Shapiro-Wilk test is more than .05 while the data is significantly deviate from the normal distribution if it is recorded less than .05.

4.3.3 Homoscedasticity

Homoscdedastic is a sequence of random variables that have the similar finite variance in statistics. It is also called as homogeneity of variance. The methods that used in evaluating the homoscedasticity needed the independent variables to be non-metric which are nominal or ordinal while dependent variable to be ordinal or interval. The assumption will evaluated as part of the multiple regression's residual analysis if both variables are metric. It produces a pretty straight line where it represents the constant relationship between dependent and independent variables in the research study. Table 4.3 shows the homogeneity of variances among the variables. The variance in the table is homogenous as the Levene Statistic for all variables are more than .001 (> .001).

Table 4.3 *Homogeneity of Variances among the Variables*

| | Levene Statistics | df1 | df2 | Sig. |
|--|----------------------|-----|-----|------|
| Knowledge sharing behavior and attitudes | 1.917 | 11 | 136 | .042 |
| Knowledge sharing behavior and sense of self-worth | .636 | 10 | 137 | .781 |
| Knowledge sharing behavior and organizational incentives | 2.790 | 15 | 131 | .001 |
| Knowledge sharing behavior and management support | 1.293 | 10 | 136 | .241 |

4.3.4 Outliers Detection

Outliers detection are the situation where there will have a typical score for a variable which is univariate outliers or a combination of variables which called as multivariate outliers. Generally, the concern for outliers detection is to find out whether

the analysis is more valid with the outlier case or more valid when the outlier case is excluded.

Table 4.4 *Percentiles for Knowledge Sharing Behavior*

| | | | Percentiles | | | | | |
|---------------------------------------|-----|------|-------------|------|------|------|------|------|
| | | 5 | 10 | 25 | 50 | 75 | 90 | 95 |
| Weighted Average (Definition 1) | KSB | 3.00 | 3.33 | 3.67 | 3.83 | 4.17 | 4.50 | 4.67 |
| Tukey's Hinges | KSB | | | 3.67 | 3.83 | 4.17 | | |

Table 4.5
Outlier Detection Test

| | | Case Number | Value |
|---------|---|-------------|-------------------|
| Highest | 1 | 1 | 5.00 |
| | 2 | 2 | 5.00 |
| | 3 | 3 | 5.00 |
| | 4 | 4 | 4.83 |
| | 5 | 5 | 4.83ª |
| Lowest | 1 | 148 | 2.50 |
| | 2 | 147 | 2.67 |
| | 3 | 146 | 2.67 |
| | 4 | 145 | 2.67 |
| | 5 | 144 | 3.00 ^b |

Note:

- a. Only a partial list of cases with the value 4.83 is shown in the table of upper extremes.
- b. Only a partial list of cases with the value 3.00 is shown in the table of lower extremes.

4.3.5 Multicollinearity

Multicollinearity is the correlation among independent and the dependent variable. However, the exact dependent variable is still knowledge sharing behavior. VIF showed in Table 4.6 is referred to as variance inflation factor which measures the variance of the regression coefficients that is inflated by multicollinearity problems.

Based on Table 4.6 the VIF for all independent variables, the VIF value is around 1.1 and above which meaning that there are no collinearity issues. The VIF that is measure of 1 is an indication to some association among predictor variables. However, literally it is not enough to cause problems. The maximum acceptable VIF value is 5.0 and anything higher could indicate a problem with multicollinearity.

On the other hand, tolerance that stated in the tables is the variance's amount in an independent variable which is not explained by the other independent variables. There are problem with multicollinearity if the other variables explain a lot of variance of the particular variable. Small values of tolerance could suggest there are problems of multicollinearity .20 are the minimum cutoff value for the tolerance. It is meaning to say that the tolerance which is smaller than .20 indicate a problem with multicollinearity. Since, there are no values smaller than .20 were found in this study, problem with multicollinearity was not occurred.

Table 4.6 *Coefficients for Collinearity Statistics*

| (Constant) | Tolerance | VIF |
|--|--|-------------------------|
| | DV: Management Support | |
| Attitudes | .599 | 1.670 |
| Sense of Self-Worth | .644 | 1.553 |
| Organizational Incentives | .890 | 1.124 |
| | DV: Organizational Incentives | |
| Attitudes | .603 | 1.657 |
| Sense of Self-Worth | .615 | 1.626 |
| Management Support | .779 | 1.283 |
| Attitudes Management Support Organizational Incentives | DV: Sense of self- worth .785 .746 .814 | 1.275 1.340 1.229 |
| Management Support Organizational incentives Sense of Self-Worth | DV: Attitudes .734 .844 .829 | 1.363 1.185 1.206 |

Note:

a: DV (Dependent Variable)

4.4 Factor Analysis

Factor analysis is purposely done to describe the variation between variables in the context of few underlying but unobservable random variables which is namely as factors. The analysis could be viewed as the statistical procedure for grouping the variables into the subsets like the variables of each set that are mutually highly correlated whereas the variables in different subsets are relatively uncorrelated at the same time. Items that show the value of 'a-square' that is below than .5 will be omitted. First and foremost, the KMO (Keiser-Meyer-Oklin) of the variable will be determined in the factor analysis. Generally, the higher the cumulative variance is the better the correlation among items of the variables.

The factor analysis of this study contributed all of the items that measure the dependent variable (knowledge sharing behavior), independent variables (individual factors and organizational factors) and a moderator (interpersonal trust). The sample size is important before the factor analysis can be run (Pallant, 2010). The number of data is enough as the minimum number of data is 100 to proceed the factor analysis (Barlett, Kotrlik & Higgins, 2001; Hair, Anderson, Tatham & Black., 1998; Pallant, 2010).

4.4.1 Knowledge Sharing Behavior (KSB) Constructs

The knowledge sharing behavior constructs were measured with using six items that was adapted from Bock, Zmud, Kim and Lee (2005). Table 4.7 was shown the KMO index that measure the accuracy of the sample is .730 with the significant Barlett's Test of Sphericity (chi-square = 186.523, p < .001). Thus, the factor analysis is suitable to be used in these data (Pallant, 2010). The reliability was done to the deleted items to see whether it is reliable to be tested in the actual test. As the Cronbach's Alpha value is < .5, thus, the items will not be used in this study for further analysis. While the

reliability for accepted items is .76, thus all the four items for component 1 is suitable to be analyzed in this study.

Table 4.7
Factor Analysis For Knowledge Sharing Behavior Construct

| Items | Components | | |
|---|------------|-------|--|
| | 1 | 2 | |
| KSB 6 I shared know-why | .842 | | |
| knowledge from work with | | | |
| my co-workers. | | | |
| KSB 5 I shared expertise from | .712 | | |
| education or training with | | | |
| my co-workers. | | | |
| KSB 4 I shared work experiences | .632 | | |
| with my co-workers. | | | |
| KSB 1 I shared factual knowledge | .489 | | |
| (know-what) from work | | | |
| with my co-workers. | | | |
| KSB 2 I shared business | | .606 | |
| knowledge about the | | | |
| customers, products, | | | |
| suppliers and competitors | | | |
| with my co-workers. | | | |
| KSB 3 I shared internal reports | | .550 | |
| and other official | | | |
| documents with my co- | | | |
| workers. | | | |
| Eigen value | 2.467 | 1.33 | |
| Total variance explained (%) = | 41.11 | 22.16 | |
| 44.76 | | | |
| Kaiser-Meyer-Olkin (KMO) = 0.730 | | | |
| Barlett's Test of Sphericity Approx. Chi Square = 186.523 | | | |
| df = 15 | | | |
| Sig. = 0.000 | | | |

Note: Extraction Method: Principal Axis Factoring.

Table 4.8
Reliability Statistics for Deleted Items (Component 2)

| Crobach's Alpha | Number of items |
|-----------------|-----------------|
| .48 | 2 |

Table 4.9
Reliability Statistics for Accepted Items (Component 1)

| Crobach's Alpha | Number of items |
|-----------------|-----------------|
| .76 | 4 |

4.4.2 Individual Factors (IF) Constructs

Table 4.10 shows the KMO value is .841 which is more than .50 that presents as an acceptable number as it determined that the distribution of the items are nearly normal with a significant of .000. Thus, the factor loading analysis is unnecessary as the KMO value is considered high. The reliability test was done to each component. Two components were selected to be an accepted item to be tested in this study. While component three which consist of reverse type of questions were excluded further analyses.

Table 4.10 Factor Analysis For Individual Factor Constructs

| Items | Components | | |
|---------------------------|------------|---|-----|
| | 1 | 2 | 3 |
| Factor 1: Attitudes | | | |
| IF11 To me, sharing | .766 | | |
| knowledge with my co- | | | |
| workers is good. | | | |
| | | | |
| IF 8 If I share my | .753 | | |
| knowledge with other | | | |
| members, I feel very | | | |
| expressive. | | | |
| - Feedback Co. | | | |
| IF 9 It is wise move if I | .747 | | |
| share my knowledge with | | | |
| other members. | | | |
| omer memoers. | | | |
| | l | J | l . |

| IE 6 If I above | 707 | | |
|-------------------------------|------|------|------|
| IF 6 If I share my | .706 | | |
| knowledge with other | | | |
| members, I feel very | | | |
| beneficial. | | | |
| | | | |
| IF 13 To me, sharing | .644 | | |
| knowledge with my co- | | | |
| worker is wise. | | | |
| | | | |
| IF 7 If I share my | .464 | | |
| knowledge with other | | | |
| members, I feel very | | | |
| pleasant. | | | |
| | | | |
| Factor 2: Sense of Self-worth | h | | |
| IF 3 Sharing my | | .762 | |
| knowledge would improve | | | |
| work processes in the | | | |
| organization. | | | |
| | | | |
| IF 2 Sharing my | | .687 | |
| knowledge would create | | | |
| new business opportunities | | | |
| for the organization. | | | |
| | | | |
| IF 4 Sharing my | | .686 | |
| knowledge would increase | | | |
| productivity in the | | | |
| organization. | | | |
| | | | |
| IF 5 Sharing my | | .494 | |
| knowledge would help the | | | |
| organization achieve its | | | |
| performance objectives. | | | |
| periormanee sojeenves. | | | |
| IF 1 Sharing my | | .489 | |
| knowledge would help | | | |
| other members in the | | | |
| organization solve | | | |
| problems. | | | |
| prodicins. | | | |
| IFF10To me, sharing | | + | 750 |
| knowledge with my co- | | | |
| workers is harmful. | | | |
| workers is narilliur. | | | |
| IFF 12 To me, sharing | | + | 601 |
| knowledge with my co- | | | |
| workers is worthless. | | | |
| workers is worthless. | | | |
| Eigen value | 5.64 | 1.44 | 1.37 |
| | 5.01 | 1.11 | 1.57 |
| | | | |

| Total variance explained | 43.34 | 11.06 | 10.49 |
|---|-------|-------|-------|
| (%) = 54.66 | | | |
| | | | |
| Kaiser-Meyer-Olkin = .841 | | | |
| Barlett's Test of Sphericity Approx. Chi Square = 937.912 | | | |
| df = 78 | | | |
| Sig. = 0.000 | | | |

Note: Extraction Method: Principal Axis Factoring.

Table 4.11
Reliability Statistics for Accepted Items for Attitudes (Component 1)

| Crobach's Alpha | Number of items |
|-----------------|-----------------|
| .86 | 6 |

Table 4.12
Reliability Statistics for Accepted Items for Sense Of Self-Worth (Component 2)

| Crobach's Alpha | Number of items |
|-----------------|-----------------|
| .83 | 5 |

Table 4.13
Reliability Statistics for Deleted Items (Component 3)

| Crobach's Alpha | Number of items |
|-----------------|-----------------|
| .64 | 2 |

Through the reference from the questionnaire, the researcher could determine the areas which each factor are related to. Based on Table 4.14, the factor 1 are consists of IF 11, IF 8, IF 9, IF 6, IF 13, and IF 7 which is measuring the attitudes. Factor 2 is referring to the measurement of sense of self-worth that consists of IF 3, IF 2, IF 4, IF 5 and IF 1.

Table 4.14 *Items of Individual Factors According To Factors*

| Factor 1 | Factor 2 |
|-----------------|-----------------|
| IF 11 | IF 3 |
| IF 8 | IF 2 |
| 1F 9 | IF 4 |
| IF 6 | IF 5 |
| IF 13 | IF 1 |
| IF 7 | |
| No of items = 6 | No of items = 5 |

4.4.3 Organizational Factor (OF) Constructs

The measurement of KMO for adequate sampling could inform that the high value which is close to 1.0 indicates that the factor analysis is useful with the data. According to the Table 4.15, the KMO value is .821 which is also more than .50 that presents as an acceptable number as it determined that the distribution of the items are nearly normal with a significant of .000. Thus, the factor loading analysis is unnecessary as the KMO value is considered high.

Table 4.15
Factor Analysis Individual Factor Constructs

| Items | Components | | |
|-------------------------------------|------------|--|--|
| | 1 | | |
| Factor 1: Organizational Incentives | | | |
| OF 3 Sharing knowledge with | .934 | | |
| my co-workers improves | | | |
| the likelihoods of getting a | | | |
| higher salary for me. | | | |
| OF 4 Sharing knowledge with | .897 | | |
| my co-workers improves | | | |
| the likelihod of getting | | | |
| bonus for me. | | | |

| OF 2 Sharing knowledge with | .860 | | | |
|---|-------|-------|--|--|
| my co-workers improves | .000 | | | |
| the likelihood of getting a | | | | |
| promotion for me. | | | | |
| OF 5 I expect to get more job | .660 | | | |
| security when I share | .000 | | | |
| knowledge with my co- | | | | |
| workers. | | | | |
| OF 1 Sharing knowledge with | .600 | | | |
| my co-workers improves | .000 | | | |
| the likelihood of getting | | | | |
| better work assignment for | | | | |
| me. | | | | |
| Factor 2: Management Support | | | | |
| OF 7 Top managers always | | .898 | | |
| support and encourage | | .070 | | |
| employees to share their | | | | |
| knowledge with colleagues. | | | | |
| OF 9 Top managers are keen to | | .820 | | |
| see that the employees are | | .020 | | |
| happy to share their | | | | |
| knowledge with colleagues. | | | | |
| OF 8 Top managers provide | | .808 | | |
| most of the necessary help | | .000 | | |
| and resources to enable | | | | |
| employees to share | | | | |
| knowledge. | | | | |
| OF 6 Top managers think that | | .689 | | |
| encouraging knowledge | | .007 | | |
| sharing with colleagues is | | | | |
| beneficial. | | | | |
| Eigen value | 4.24 | 1.90 | | |
| Total variance explained (%) = | 47.06 | 21.06 | | |
| 60.91 | 77.00 | 21.00 | | |
| Kaiser-Meyer-Olkin = .821 | | 1 | | |
| Barlett's Test of Sphericity Approx. Chi Square = 760.268 | | | | |
| df = 36 | | | | |
| Sig. = 0.000 | | | | |
| 515 0.000 | | | | |

Note: Extraction Method: Principal Axis Factoring.

Based on Table 4.16, the factor 1 are consists of OF 3, OF 4, OF 2, OF 5 and OF 1 which is measuring the organizational incentives. While, factor 2 is referring to the measurement of management support that consists of OF 7, OF 9, OF 8 and OF 6. Thus, reliability test will be done according to the factors above in order to determine the reliability of every item in the particular factor.

Table 4.16

Items of Organizational Factors According To Factors

| Factor 1 | Factor 2 |
|-----------------|-----------------|
| OF 3 | OF 7 |
| OF 4 | OF 9 |
| OF 2 | OF 8 |
| OF 5 | OF 6 |
| OF 1 | |
| No of items = 5 | No of items = 4 |

4.4.4 Interpersonal Trust (IT) Constructs

The interpersonal trust's contruct were measured by using five items that was adopted from Yilmaz and Hunt (2001). The KMO index shown in Table 4.17 is recorded the value of .778 with the significant Barlett's Test of Sphericity (chi-square = 493.637, p< .001). Thus, it means that the factor analysis is suitable to be used in these data (Pallant, 2010).

Table 4.17
Factor Analysis For Interpersonal Trust Constructs

| Items | Components |
|----------------------------------|------------|
| | 1 |
| IT 5 I consider my co-workers as | .861 |
| people whom I have great | |
| confidence in. | |
| IT 2 I consider my co-workers as | .859 |
| people who can be counted on | |
| to do what is right. | |
| IT 3 I considermy co-workers as | .802 |
| people who can be counted on | |
| to get the job done right. | |
| IT 4 I consider my co-workers as | .765 |

| people whom are always | | |
|---|-------|--|
| faithful. | | |
| IT 1 I consider my co-workers as | .693 | |
| people who can be trusted. | | |
| Eigen value | 3.54 | |
| Total variance explained (%) | 63.75 | |
| Kaiser-Meyer-Olkin (KMO) = .778 | | |
| Barlett's Test of Sphericity Approx. Chi Square = 493.637 | | |
| df = 10 | | |
| Sig.= 0.000 | | |

Note: Extraction Method: Principal Axis Factoring.

4.4.5 Deleted Items

There are some items from the variables than have been deleted in order to obtain a better Cronbach's Alpha for the reliability analysis.

Table 4.18

Deleted Items for the Variables after the Factor Analysis

| Variables | Deleted Items | No. of Items Deleted |
|----------------------------|-----------------|----------------------|
| Knowledge sharing behavior | KSB 2 & KSB 3 | 2 |
| Attitudes | No deleted item | 0 |
| Sense of self-worth | IFF 10 & IFF 12 | 2 |
| Organizational incentives | No deleted item | 0 |
| Management support | No deleted item | 0 |
| Interpersonal Trust | No deleted item | 0 |

4.5 Correlation Analysis

Table 4.19 presents the means, standard deviations and Pearson correlations of variables for the 148 participants who participated in the study. The internal consistency reliabilities (Cronbach's Alpha) of the research measures are reported in parenthesis

along the diagonal of the correlation table. As shown in Table 4.19, the Cronbach's alphas for the individual factor were .89. The two dimensions of individual factors scale (sense of self-worth and attitudes) also have satisfactory reliability values ranging from .83 to .86. It is noted that Cronbach's alpha for organizational factor was .86 and its two dimensions scale (organizational incentives and management support) have satisfactory reliability values ranging from .84 to .87. Finally, interpersonal trust also has high reliability value of .90.

Overall, individual factors were found positively significantly correlated with knowledge sharing behavior (r = .54, p > .001). There were also significant positive correlation between all the individual factor's dimensions and knowledge sharing behavior, with correlation coefficients between .44 and .51. These results imply that the more positive attitudes and sense of self-worth the participants have, the more knowledge will be shared. These results support previous study conducted by Ahmad, Sharom and Abdullah (2006) where they also found similar relationship between the variables. This finding was not surprising. Logically, those who have positive attitudes towards knowledge sharing will demonstrate more positive knowledge sharing behavior. Similarly, if individuals feel that it is worth to share knowledge with others they will be more willing to share their knowledge with others.

Table 4.19 also revealed significant positive relationship between organizational factors (overall) with knowledge sharing behavior (r = .29, p > .01). Also, there were significant positive relationships between organizational incentives, management support and knowledge sharing behavior, with correlation coefficients between .26 and

.23. This result implies that the higher the incentives and management support received by the participants, the higher the knowledge sharing behavior. This results support previous study conducted by Kankanhalli, Tan and Wei (2005), Cockrell, Stone and Wier (2009), Connelly and Kelloway (2003) and O'Dell and Grayson's (1998). One possible explanation for these results might be because they are motivated by the incentives provided by the organization to share knowledge with others. Normally, individuals would like to see the benefits that they would gain by sharing knowledge with others. These benefits act as a motivator or a driver for them to share knowledge. Apart from that, management support such as providing medium for knowledge sharing will also speed up the process to encourage individuals to share their knowledge.

Table 4.19
Descriptive Statistics, Scale Reliabilities and Correlations of Variables

| | Variables | N | Mean | S.D. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----|----------------------------------|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. | Individual factors - overall | 148 | 4.03 | .48 | (.89) | | | | | | | |
| 2. | Sense of self-worth | 148 | 4.06 | .49 | .86** | (.83) | | | | | | |
| 3. | Attitudes | 148 | 4.01 | .57 | .93** | .61** | (.86) | | | | | |
| 4. | Organizational factors - overall | 148 | 3.48 | .58 | .42** | .34** | .40** | (.86) | | | | |
| 5. | Organizational incentives | 148 | 3.17 | .74 | .28** | .21** | .29** | .90** | (.87) | | | |
| 6. | Management support | 148 | 3.86 | .61 | .46** | .41** | .42** | .75** | .39** | (.84) | | |
| 7. | Interpersonal trust | 148 | 3.20 | .78 | .36** | .25** | .38** | .45** | .43** | .31** | (.90) | |
| 8. | Knowledge sharing behavior | 148 | 4.16 | .52 | .54** | .44** | .51** | .29** | .26** | .23** | .24** | (.76) |

Note: ** Correlation is significant at the level 0.01 level (2-tailed), * Correlation is significant at the 0.05 level (2-tailed).

4.6 Multiple Regression Analysis

To test hypothesis 1 to 4, regression analysis was conducted. Results in Table 4.20 showed that 30% ($R^2 = .30$, F = 15.37 p<.01) of the variance in knowledge sharing behavior was significantly explained by sense of self-worth, attitudes, organizational incentives and management support. In the model, only sense of self-worth ($\beta = .225$, p<.05), and attitudes ($\beta = .357$, p<.01) were found positively associated with knowledge sharing behavior. Therefore, Hypothesis 1 and 2 were supported. The results demonstrated that people who have positive attitude and have high sense of self-worth are more likely to be involved in knowledge sharing activities with others. Thus, both variables were proved to be significantly affecting the level of knowledge sharing behavior at work between employees.

Table 4.20
Regression Results of Attitudes, Sense Of Self-Worth, Organizational Incentives and Management Support on Knowledge Sharing Behavior

| | Dependent variable (Knowledge sharing behavior) (Standardized Beta) | Significant (p) | Tolerance | VIF |
|---------------------------------------|--|--------------------|-----------|-------|
| Independent variables | | | | |
| Sense of self-worth | .225** | .014 | .597 | 1.675 |
| Attitudes | .357* | .000 | .581 | 1.722 |
| Organizational incentives | .130 | .093 | .826 | 1.210 |
| Management support | 059 | .478 | .712 | 1.405 |
| 3 | 15.37 .30 .28 1.97 | | | |
| Adjusted R ² Durbin Watson | .28 1.97 | | | |

^{**}p< 0.05; *p<0.01

4.7 Hierarchical Regression Analysis

4.7.1 Test of Moderation

The three step of hierarchical regression analysis was done to test the hypotheses that consist of the direct and moderating effects of knowledge sharing behavior among workers at SME Kedah. However, this study is including a moderator which is interpersonal trust. Moderation happens in the regression analysis when the relationship among the two variables is depends on the third variable which is referred to as a moderator (Cohen, Cohen, Leona & West, 2003). The effect of the moderator is characterized statistically as the interaction where it could affects the direction or strength of the relationship among dependent and the independent variables (Cohen, Cohen, Leona & West 2003).

As noted in Table 4.21, the analysis on knowledge sharing behavior revealed that the main effects of the sense of self-worth were significant (p<.01). Specifically, Step 2 was found to be not significant on the contribution of interpersonal trust (p>.01). The interaction between sense of self-worth and interpersonal trust was not found to be significant in step 3. Therefore, interpersonal trust was not found to be a moderator for the relationships between sense of self-worth and knowledge sharing behavior and hypothesis 5 was rejected. This result implies that trust does not influence the relationship between sense of self-worth and knowledge sharing behavior. In other words, if an individual feels it is worth to share knowledge with others, they don't take into account whether they trust or not the person that they shared the knowledge. To them, sharing knowledge is more important than thinking about the consequences that they will get by sharing the knowledge with others.

Table 4.21 Hierarchical Regression Analysis On Interpersonal Trust As Moderator In Relationship Between Sense Of Self-Worth And Knowledge Sharing Behavior

| Variables | Std Beta Step 1 | Std Beta Step 2 | Std Beta Step 3 |
|---|--------------------|--------------------|--------------------|
| Independent variable | | | |
| Sense of self-worth | .445 | .411 | .098 |
| Moderating variable | | | |
| Interpersonal Trust | | .137 | 513 |
| Interaction between variables | | | |
| Sense of self-worth x Knowledge sharing behavior | | | .793 |
| R ² | .198 | .216 | .222 |
| Adjusted R ² Change in R ² | .193 | .205 | .206 |
| Significant change in F | .198 | .018 | .006 |
| Durbin Watson | 36.118 | 3.262 | 1.070 |
| | | | 1.868 |

In Table 4.22, step 1 was found to be significant (p<.01). Nevertheless, step 2 and 3 were not found to be significant (p>.01). The direct effects of the predictors significantly explained 25.7% of the variability knowledge sharing behavior. Therefore, interpersonal trust was not found to be a moderator for the relationships between attitudes and knowledge sharing behavior and hypotheses 6 was rejected. This results demonstrate that trust was not play a significant role in knowledge sharing when an individual possess positive attitudes about sharing knowledge with others. In other words, people normally would not think about whether they trust the person whom knowledge will be shared when they have such a positive attitude that sharing knowledge with others will create a better benefit for the organizations as a whole.

Table 4.22 Hierarchical Regression Analysis On Interpersonal Trust As Moderator In Relationship Between Attitude And Knowledge Sharing Behavior

| Variables | Std Beta Step 1 | Std Beta Step 2 | Std Beta Step 3 |
|--|--------------------|--------------------|--------------------|
| Independent variable | | | |
| Attitude | .507 | .486 | 022 |
| Moderating variable | | | |
| Interpersonal Trust | | .055 | 834 |
| Interaction between variables | | | |
| Attitude x Knowledge sharing behavior | | | 1.184 |
| R ² | .257 | .260 | .271 |
| Adjusted R ² Change in R ² | .252 | .250 | .256 |
| Significant change in F | .257 | .003 | .011 |
| Durbin Watson | 50.558 | .511 | 2.221 |
| | | | 2.072 |

In Table 4.23, step 1, 2, and 3 were not found to be significant (p>.01). The direct effects of the predictors namely, perceived organizational incentives have significantly explained 66% of the variability in knowledge sharing behavior. Contribution of interpersonal trust was not found to moderate the relationship between organizational incentives and knowledge sharing behavior and thus, hypotheses 7 was not supported. The results indicate that the interaction effects of organizational incentives and interpersonal trust has not added significant contribution in explaining the variation in knowledge sharing behavior. In other words, trust was not considered as important when incentives are involved in knowledge sharing context. One possible explanation for this might be participants in this study regards incentives as more important factor than looking at whether to trust

others before sharing the knowledge. As long as they get the incentives provided by the organization, they won't pay serious attention to the issue of trust.

Table 4.23
Hierarchical Regression Analysis On Interpersonal Trust As Moderator In
Relationship Between Perceived Organizational Incentives And Knowledge Sharing
Behavior

| Variables | Std Beta Step 1 | Std Beta Step 2 | Std Beta Step 3 |
|---|--------------------|--------------------|--------------------|
| Independent variable | | | |
| Organizational incentives | .257 | .190 | .015 |
| Moderating variable | | | |
| Interpersonal Trust | | .158 | 011 |
| Interaction between variables | | | |
| Organizational incentives x Knowledge sharing behavior | | | .294 |
| R ² | .066 | .087 | .089 |
| Adjusted R ² Change in R ² | .060 | .074 | .070 |
| Significant change in F | .066 | .020 | .002 |
| Durbin Watson | 10.357 | 3.252 | .332 |
| | | | 1.824 |

Based on Table 4.24, the analysis on knowledge sharing behavior revealed that the main effects on the management support were significant (p<.01). Specifically, Step 2 was found to be not significant on the contribution respect of interpersonal trust. However, the interaction between management support and interpersonal trust was not found to be significant in step 3. Therefore, interpersonal trust was not found to be a moderator for the relationships between management support and knowledge sharing behavior and hypotheses 8 was not supported. The results demonstrate that trust might not be as important as receiving support from the management when comes to sharing knowledge with others. To them, as long as they

continually received support from the management, they would not worry about the issue of trusting others when sharing the knowledge.

Table 4.24 Hierarchical Regression Analysis On Interpersonal Trust As Moderator In Relationship Between Management Support And Knowledge Sharing Behavior

| Variables | Std Beta Step 1 | Std Beta Step 2 | Std Beta Step 3 |
|---|--------------------|--------------------|--------------------|
| Independent variable | | | |
| Management support | .233 | .176 | .105 |
| Moderating variable | | | |
| Interpersonal Trust | | .185 | .079 |
| Interaction between variables | | | |
| Management support x Knowledge sharing behavior | | | .146 |
| R ² | .054 | .085 | .086 |
| Adjusted R ² Change in R ² | .048 | .073 | .066 |
| Significant change in F | .054 | 031 | .000 |
| Durbin Watson | 8.383 | 4.890 | 057 |
| | | | 1.883 |

4.8 Conclusions

This chapter described the demographic characteristics of the 148 participants and the results of correlation and regression analyses. The results indicated that individual factor such as sense of self-worth and attitudes, and organization factor such as perceived organizational incentives and management support have significant positive relationship with knowledge sharing behavior. However, only individual sense of self-worth and attitudes makes the strongest contribution to explain the knowledge sharing behavior. Interpersonal trust was also not found to moderate the relationship between all the variables tested. The research implications, limitations and direction for future research are discussed in the next chapter, Chapter 5.

CHAPTER 5

RESEARCH IMPLICTIONS, RECOMMENDATIONS AND CONCLUSIONS

5.1 Introduction

In this concluding chapter, summary of research is first discussed. It then followed by the discussions on the research implications which include theoretical and practical implications. The chapter ends with a discussion on the limitations and direction for future research.

5.2 Summary of Research

The main objective of this study is to investigate factors that might influence knowledge sharing behavior among employees at Bumiputra SMEs. Specifically, the study was interested to test the relationship between individual factors such as sense of self-worth and attitudes and organizational factors such as organizational incentives and management support and knowledge sharing behavior. Interpersonal trust was also tested as a moderator in the relationship between sense of self-worth and knowledge sharing behavior, between attitudes and knowledge sharing behavior, between organizational incentives and knowledge sharing behavior and between management support and knowledge sharing behavior.

In this study, the hypotheses were tested using multiple regression analysis and hierarchical regression analysis. Multiple regression analysis was used to test hypotheses 1 to 4. Results indicate that only sense of self-worth and attitudes were found to be positively associated with knowledge sharing behavior. Therefore, only hypotheses 1 and 2 were supported. Results from hierarchical regression analysis revealed that interpersonal trust was found not moderate the relationship between sense of self-worth and knowledge sharing behavior, between attitude and knowledge sharing behavior, between organizational incentives and knowledge sharing behavior and between management support and knowledge sharing behavior. Therefore, hypotheses 5 to 8 were not supported.

5.3 Implications for Practice

The current research findings also have several implications for management. The research results demonstrate that knowledge sharing behavior was influence more by the individual factors rather than by the organizational factors. Since employees' attitude and feeling of self-worth contribute to knowledge sharing behavior, management of organization must find ways of motivating the employees and highlighting the benefits that they and the organization will gain through the knowledge sharing.

Interestingly, results from the study also revealed that organizational factors such as organizational incentives and management support might not be the best way to encourage employees to share their knowledge. Therefore, if the management of the organization plans to continue utilizing incentives as an effort to encourage their

employees to share knowledge, the incentives given must be attractive and relevant with the needs of the employees. Similarly, the kind of support provided by the management must also relevant with what the employees are expected.

In summary, the prescriptions discussed above are suggestive of the types of actions that management of the organization can take in encouraging their employees to share their knowledge. It is hoped that results from the study will encourage new thinking among the management. The research results reported in this study suggest the need for management to reconsider their effort in encouraging knowledge sharing at the workplace.

5.4 Limitations of Study and Directions for Future Research

There are limitations in the design of this study that might influence the interpretations and generalizations of these findings. First, the study was conducted on only Bumiputra SMEs. Thus, the findings only captured perception of Malay employees regarding the knowledge sharing behavior issues and cannot be generalized to other races. Secondly, the study only tested few individual and organizational factors. Based on the regression analysis, the model only explained thirty percent of the variance in knowledge sharing behavior. Therefore, there is a need for future research to extend the exploration of knowledge sharing behavior on other types of industries involving other races and involving other variables such as types of medium for knowledge sharing, technological factors and human resource practices.

5.5 Conclusions

The aim of this study was to examine the factors that influence knowledge sharing behavior. The results indicate that individual factors such as sense of self-worth and attitudes were related to knowledge sharing behavior. Since the study was conducted at Bumiputra SMEs only, the findings must be interpreted with cautious and cannot be generalized to represent other organization. It is hoped that through the examination of the factors that influence knowledge sharing behavior, a more complete understanding of the kind of effort needed to enhance knowledge sharing will be achieved.

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APPENDIX A



KAJIAN TENTANG GELAGAT PERKONGSIAN PENGETAHUAN

Tuan/Puan yang dihormati,

Terima kasih di atas persetujuan anda untuk menyertai penyelidikan tentang gelagat perkongsian pengetahuan.

Saya amat menghargai sekiranya anda dapat menjawab soalan dengan berhati-hati kerana maklumat yang anda beri akan mempengaruhi ketepatan dan kejayaan penyelidikan ini. Ia akan mengambil masa tidak lebih daripada 30 minit untuk menyiapkan soal selidik ini. Kesemua jawapan akan dianggap sebagai sulit dan hanya akan digunakan untuk tujuan kajian ini sahaja.

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Yang benar,

Ain Zuraini binti Zin Aris Pelajar Pascasiswazah Othman Yeop Abdullah Graduate School of Business Universiti Utara Malaysia

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BAHAGIAN SATU

| | | Sangat tidak setuju | Tidak setuju | Neutral | Setuju | Sangat Setuju |
|----|---|---------------------------|-----------------|---------|--------|------------------|
| 1. | Saya berkongsi pengetahuan berkaitan kerja (know-what) dengan rakan sekerja. | 1 | 2 | 3 | 4 | 5 |
| 2. | Saya berkongsi pengetahuan perniagaan seperti pelanggan, produk, pembekal dan pesaing dengan rakan sekerja. | 1 | 2 | 3 | 4 | 5 |
| 3. | Saya berkongsi laporan dalaman dan dokumen rasmi yang lain dengan rakan sekerja. | 1 | 2 | 3 | 4 | 5 |
| 4. | Saya berkongsi pengalaman kerja dengan rakan sekerja. | 1 | 2 | 3 | 4 | 5 |
| 5. | Saya berkongsi kepakaran daripada pembelajaran atau latihan dengan rakan sekerja. | 1 | 2 | 3 | 4 | 5 |
| 6. | Saya berkongsi pengetahuan berkaitan kerja (know-why) dengan rakan sekerja. | 1 | 2 | 3 | 4 | 5 |

BAHAGIAN DUA

| | | Sangat tidak setuju | Tidak setuju | Neutral | Setuju | Sangat setuju |
|----|---|---------------------------|-----------------|---------|--------|------------------|
| 1. | Dengan berkongsi pengetahuan yang saya ada dengan ahli lain dalam organisasi akan dapat membantu menyelesaikan masalah. | 1 | 2 | 3 | 4 | 5 |
| 2. | Dengan berkongsi pengetahuan yang saya ada akan mewujudkan peluang perniagaan baru bagi organisasi. | 1 | 2 | 3 | 4 | 5 |
| 3. | Dengan berkongsi pengetahuan yang saya ada akan dapat memperbaiki proses kerja dalam organisasi. | 1 | 2 | 3 | 4 | 5 |
| 4. | Dengan berkongsi pengetahuan yang saya ada akan dapat meningkatkan produktiviti dalam organisasi. | 1 | 2 | 3 | 4 | 5 |
| 5. | Dengan berkongsi pengetahuan yang saya ada akan dapat membantu organisasi mencapai objektif prestasinya. | 1 | 2 | 3 | 4 | 5 |
| 6. | Saya berasa sangat bermanfaat sekiranya saya berkongsi pengetahuan dengan ahli-ahli lain. | 1 | 2 | 3 | 4 | 5 |
| 7. | Saya berasa sangat gembira sekiranya saya berkongsi pengetahuan dengan ahli-ahli yang lain. | 1 | 2 | 3 | 4 | 5 |
| 8. | Saya berasa sangat teruja sekiranya saya berkongsi pengetahuan dengan ahli-ahli yang lain. | 1 | 2 | 3 | 4 | 5 |
| 9. | la adalah satu langkah yang bijak jika saya berkongsi pengetahuan dengan ahli-ahli yang lain. | 1 | 2 | 3 | 4 | 5 |

| | | Sangat tidak setuju | Tidak setuju | Neutral | Setuju | Sangat setuju |
|-----|--|---------------------------|-----------------|---------|--------|------------------|
| 10. | Bagi saya, berkongsi pengetahuan dengan rakan sekerja adalah tidak selamat. | 1 | 2 | 3 | 4 | 5 |
| 11. | Bagi saya, berkongsi pengetahuan dengan rakan sekerja adalah baik. | 1 | 2 | 3 | 4 | 5 |
| 12. | Bagi saya, berkongsi pengetahuan dengan rakan sekerja adalah sia-sia. | 1 | 2 | 3 | 4 | 5 |
| 13. | Bagi saya, berkongsi pengetahuan dengan rakan sekerja adalah satu tindakan yang bijak. | 1 | 2 | 3 | 4 | 5 |

BAHAGIAN TIGA

| | | Sangat tidak setuju | Tidak setuju | Neutral | Setuju | Sangat setuju |
|----|---|---------------------------|-----------------|---------|--------|------------------|
| 1. | Berkongsi pengetahuan dengan rakan sekerja akan meningkatkan keberangkalian saya dalam mendapatkan tugasan kerja yang lebih baik. | 1 | 2 | 3 | 4 | 5 |
| 2. | Berkongsi pengetahuan dengan rakan sekerja akan meningkatkan keberangkalian saya mendapatkan kenaikan pangkat. | 1 | 2 | 3 | 4 | 5 |
| 3. | Berkongsi pengetahuan dengan rakan sekerja akan meningkatkan keberangkalian saya mendapatkan gaji yang lebih tinggi. | 1 | 2 | 3 | 4 | 5 |
| 4. | Berkongsi pengetahuan dengan rakan sekerja akan meningkatkan keberangkalian saya mendapatkan bonus. | 1 | 2 | 3 | 4 | 5 |
| 5. | Saya berharap akan mendapat jaminan pekerjaan yang lebih baik apabila saya berkongsi pengetahuan dengan rakan sekerja. | 1 | 2 | 3 | 4 | 5 |
| 6. | Pengurus atasan berpendapat bahawa menggalakkan perkongsian pengetahuan dengan rakan sekerja adalah berfaedah. | 1 | 2 | 3 | 4 | 5 |
| 7. | Pengurus atasan sentiasa memberi sokongan dan galakan kepada pekerja untuk berkongsi pengetahuan dengan rakan sekerja mereka. | 1 | 2 | 3 | 4 | 5 |
| 8. | Pengurus atasan menyediakan bantuan dan sumber yang diperlukan bagi membolehkan pekerja untuk berkongsi pengetahuan. | 1 | 2 | 3 | 4 | 5 |
| 9. | Pengurus atasan sangat bersungguh untuk melihat pekerja gembira berkongsi pengetahuan dengan rakan sekerja mereka. | 1 | 2 | 3 | 4 | 5 |

BAHAGIAN EMPAT

| | | Sangat tidak setuju | Tidak setuju | Neutral | Setuju | Sangat setuju |
|----|--|---------------------------|-----------------|---------|--------|------------------|
| 1. | Saya menganggap rakan sekerja sebagai orang yang saya boleh percayai. | 1 | 2 | 3 | 4 | 5 |
| 2. | Saya menganggap rakan sekerja sebagai orang yang saya boleh bergantung dalam melakukan apa yang betul. | 1 | 2 | 3 | 4 | 5 |
| 3. | Saya menganggap rakan sekerja sebagai orang yang saya boleh bergantung dalam menjalankan kerja dengan betul. | 1 | 2 | 3 | 4 | 5 |
| 4. | Saya menganggap rakan sekerja sebagai orang yang sentiasa setia. | 1 | 2 | 3 | 4 | 5 |
| 5. | Saya menganggap rakan sekerja sebagai orang yang saya yakini. | 1 | 2 | 3 | 4 | 5 |

MAKLUMAT DEMOGRAFI

Bahagian ini mengandungi beberapa makumat umum mengenai diri sendiri. Sila tandakan ($\sqrt{\ }$) di dalam kotak yang sesuai atau isi ruang kosong yang disediakan.

| 1. | lentine cover |
|----|---|
| 1. | Jantina saya: |
| | Lelaki Perempuan |
| | |
| 2. | Umur saya: |
| | [] Bawah 20 tahun |
| | [] 31 – 40 tahun [] 41 – 50 tahun |
| | [] 51 tahun dan ke atas |
| | |
| | |
| 3. | Status perkahwinan saya: |
| | Bujang Berkahwin Bercerai / Berpisah / Duda |
| | Bujang Berkahwin Bercerai / Berpisah / Duda |
| | |
| 4. | Kelayakan tertinggi saya: |
| | |
| | [] PMR |
| | [] SPM [] ljazah |
| | [] Lain-lain (sila nyatakan): |
| 5. | Gaji bulanan saya: |
| | |
| | [] RM 900 dan ke bawah |
| | [] RM 901 – RM 1500 |
| | [] RM 1500 dan ke atas |

| 6. | Bilan | gan tahun bersama organisasi sekarang: | | | | | | | |
|---|--------------------------|--|-------------|------------------------|--|-----------------------------|--|--|--|
| Kurang dari setahun | | | | 1 – 3 tahun | | | | | |
| | | 4 – 7 tahun | | Lebih daripada 7 tahun | | | | | |
| 7. | Jawa | tan semasa saya: | | | | | | | |
| 8. Jenis Perusahaan Kecil dan Sederhana | | | | | | | | | |
| | | Pembinaan | | | | Perlombongan dan kuari | | | |
| | | Perkilangan (termasuk asas tan | | ii) | | Pertanian utama | | | |
| | Perkilangan perkhidmatar | | n berkaitan | | | Perkhidmatan (Termasuk ICT) | | | |
| | | Lain-lain, sila nyatakan: | | | | · | | | |

----TERIMA KASIH DI ATAS KERJASAMA ANDA----

SPSS Output

GET

FILE='C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test_1.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.

FREQUENCIES VARIABLES=Jantina Umur Status Kelayakan Gaji Biltahun PKS /STATISTICS=MINIMUM MAXIMUM /ORDER=ANALYSIS.

Frequencies

[DataSetl] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test_1.sav

Statistics

| | | Jantina | Umur | Status | Kelayakan | Gaji bulanan |
|---------|---------|---------|------|--------|-----------|--------------|
| N | Valid | 148 | 148 | 148 | 148 | 148 |
| Ì | Missing | 0 | 0 | 0 | 0 | 0 |
| Minimum | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Maximum | | 2.00 | 5.00 | 3.00 | 5.00 | 3.00 |

Statistics

| | | Bilangan tahun bersama organisasi sekarang | Jenis PKS |
|---------|---------|--|-----------|
| N | Valid | 148 | 148 |
| | Missing | 0 | 0 |
| Minimum | | 1.00 | 1.00 |
| Maximum | | 4.00 | 7.00 |

Frequency Table

Jantina

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-----------|-----------|---------|---------------|-----------------------|
| Valid | Lelaki | 79 | 53.4 | 53.4 | 53.4 |
| ļ | Perempuan | 69 | 46.6 | 46.6 | 100.0 |
| | Total | 148 | 100.0 | 100.0 | |

Umur

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------------|-----------|---------|---------------|-----------------------|
| Valid | Bawah 20 tahun | 8 | 5.4 | 5.4 | 5.4 |
| | 21 - 30 tahun | 72 | 48.6 | 48.6 | 54.1 |
| | 31 - 40 tahun | 42 | 28.4 | 28.4 | 82.4 |
| | 41 - 50 | 20 | 13.5 | 13.5 | 95.9 |
| | 51 tahun dan ke atas | 6 | 4.1 | 4.1 | 100.0 |
| | Total | 148 | 100.0 | 100.0 | |

Jenis PKS

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|---------------------------------------|-----------|---------|---------------|-----------------------|
| Valid | Pembinaan | 12 | 8.1 | 8.1 | 8.1 |
| | Perlombongan dan kuari | 6 | 4.1 | 4.1 | 12.2 |
| | Perkilangan (termasuk asas tani) | 26 | 17.6 | 17.6 | 29.7 |
| | Pertanian utama | 9 | 6.1 | 6.1 | 35.8 |
| ļ | Perkilangan perkhidmatan berkaitan | 35 | 23.6 | 23.6 | 59.5 |
| | Perkhidmatan (termasuk ICT) | 24 | 16.2 | 16.2 | 75.7 |
| | Lain- lain | 36 | 24.3 | 24.3 | 100.0 |
| | Total | 148 | 100.0 | 100.0 | |

MVA VARIABLES=KSB2 KSB3 KSB4 KSB5 KSB6 IF2 IF3 IF4 IF5 IF6 IF7 IF8 IF9 IFF1 0 IF11 IFF12 IF13 OF2 OF3 OF4 OF5 OF6 OF7 OF8 OF9 IT2 IT3 IT4 IT5 IF1 OF1 I T1 Gender Age Status Qualification Income Jobtenure SME

```
/MAXCAT=25
/ID=KSB1
/CATEGORICAL=Gender Age Status Qualification Income Jobtenure SME
/TTEST PROB PERCENT=5
/CROSSTAB PERCENT=5
/TPATTERN PERCENT=5
/LISTWISE
/PAIRWISE
/EM(TOLERANCE=0.001 CONVERGENCE=0.0001 ITERATIONS=100)
/REGRESSION(TOLERANCE=0.001 FLIMIT=4.0 NPREDICTORS=1 ADDTYPE=RESIDUAL).
```

MVA

[DataSet1] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test 1.sav

Warnings

There are no missing values. The t statistics are not computed.

There are no variables with 5% or more missing values. CROSSTAB tables are not produced.

There are no missing values. TPATTERN is not produced.

There are no missing values. EM estimates are not computed.

There are no missing values. Regression estimates are not computed.

Univariate Statistics

| | | | | Missing | | No. of Ex | tremes ^b |
|---------------|-----|--------|----------------|---------|---------|-----------|---------------------|
| | N | Mean | Std. Deviation | Count | Percent | Low | High |
| KSB2 | 148 | 3.7905 | .85915 | 0 | .0 | 0 | 0 |
| KSB3 | 148 | 2.8784 | 1.08738 | 0 | .0 | 0 | 0 |
| KSB4 | 148 | 4.1757 | .74429 | 0 | .0 | 6 | 0 |
| KSB5 | 148 | 4.1216 | .61617 | 0 | .0 | | • |
| KSB6 | 148 | 4.0878 | .68937 | 0 | .0 | 3 | 0 |
| IF2 | 148 | 3.8986 | .66741 | 0 | .0 | 0 | 0 |
| IF3 | 148 | 4.0541 | .59228 | 0 | .0 | • | • |
| IF4 | 148 | 4.1149 | .63378 | 0 | .0 | 0 | 0 |
| IF5 | 148 | 4.0270 | .63830 | 0 | .0 | | |
| IF6 | 148 | 4.1689 | .70362 | 0 | .0 | 0 | 0 |
| IF7 | 148 | 4.0541 | .76295 | 0 | .0 | 3 | 0 |
| IF8 | 148 | 3.6757 | .85090 | 0 | .0 | 3 | 0 |
| IF9 | 148 | 4.1081 | .64031 | 0 | .0 | 0 | 0 |
| IFF10 | 148 | 2.2500 | 1.12410 | 0 | .0 | 0 | 0 |
| IF11 | 148 | 4.0135 | .74675 | 0 | .0 | | |
| IFF12 | 148 | 1.8919 | .93412 | 0 | .0 | 0 | 14 |
| IF13 | 148 | 4.0405 | .72729 | 0 | .0 | 2 | 0 |
| OF2 | 148 | 2.9797 | .87652 | 0 | .0 | 0 | 0 |
| OF3 | 148 | 2.8851 | .94418 | 0 | .0 | 0 | 0 |
| OF4 | 148 | 2.8311 | .96460 | 0 | .0 | 0 | 8 |
| OF5 | 148 | 3.3919 | .93048 | 0 | .0 | 5 | 0 |
| OF6 | 148 | 4.0203 | .65434 | 0 | .0 | | |
| OF7 | 148 | 3.9324 | .74379 | 0 | .0 | - | |
| OF8 | 148 | 3.6892 | .75459 | 0 | .0 | 0 | 0 |
| OF9 | 148 | 3.7905 | .81025 | 0 | .0 | 0 | 0 |
| IT2 | 148 | 3.2027 | .95447 | 0 | .0 | 0 | 0 |
| IT3 | 148 | 3.2905 | .97068 | 0 | .0 | 8 | 0 |
| IT4 | 148 | 3.0000 | .88832 | 0 | .0 | 0 | 0 |
| IT5 | 148 | 3.1757 | .94557 | 0 | .0 | 8 | 0 |
| IF1 | 148 | 4.1892 | .62107 | 0 | .0 | 0 | 0 |
| OF1 | 148 | 3.7703 | .83377 | 0 | .0 | 0 | 0 |
| IT1 | 148 | 3.3581 | .85722 | 0 | .0 | 0 | 0 |
| Gender | 148 | | | 0 | .0 | | |
| Age | 148 | | | 0 | .0 | | |
| Status | 148 | | | 0 | .0 | | |
| Qualification | 148 | | | 0 | .0 | | |
| Income | 148 | | _ | 0 | .0 | | |

EXAMINE VARIABLES=MeanKSB MeanIF MeanOF MeanIT

/PLOT STEMLEAF HISTOGRAM NPPLOT

/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE

/NOTOTAL.

Explore

[DataSetl] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test_1.sav

Case Processing Summary

| | | Cases | | | | | | | |
|---------|-------|---------|------|---------|-------|---------|--|--|--|
| | Valid | | Miss | sing | Total | | | | |
| | N | Percent | N | Percent | N | Percent | | | |
| MeanKSB | 148 | 100.0% | 0 | .0% | 148 | 100.0% | | | |
| MeanIF | 148 | 100.0% | 0 | .0% | 148 | 100.0% | | | |
| MeanOF | 148 | 100.0% | 0 | .0% | 148 | 100.0% | | | |
| MeanIT | 148 | 100.0% | 0 | .0% | 148 | 100.0% | | | |

Descriptives

| | | | Statistic | Std. Error |
|---------|----------------------------------|-------------|-----------|------------|
| MeanKSB | Mean | <u></u> | 3.8829 | .03847 |
| | 95% Confidence Interval for Mean | Lower Bound | 3.8069 | |
| | for Mean | Upper Bound | 3.9589 | |
| | 5% Trimmed Mean | | 3.8884 | |
| | Median | | 3.8333 | |
| | Variance | | .219 | |
| | Std. Deviation | | .46797 | |
| | Minimum | | 2.50 | |
| | Maximum | | 5.00 | |
| | Range | | 2.50 | |
| | Interquartile Range | | .50 | |
| | Skewness | | 216 | .199 |
| | Kurtosis | | .652 | .396 |
| MeanIF | Mean | | 3.7297 | .03171 |
| | 95% Confidence Interval | Lower Bound | 3.6671 | |
| | for Mean | Upper Bound | 3.7924 | |
| | 5% Trimmed Mean | | 3.7337 | |
| | Median | | 3.7692 | |
| | Variance | | .149 | |
| | Std. Deviation | | .38576 | |
| | Minimum | | 2.85 | |
| | Maximum | | 4.54 | |
| | Range | | 1.69 | |
| | Interquartile Range | | .38 | |
| | Skewness | | 122 | .199 |
| _ | Kurtosis | | 324 | .396 |

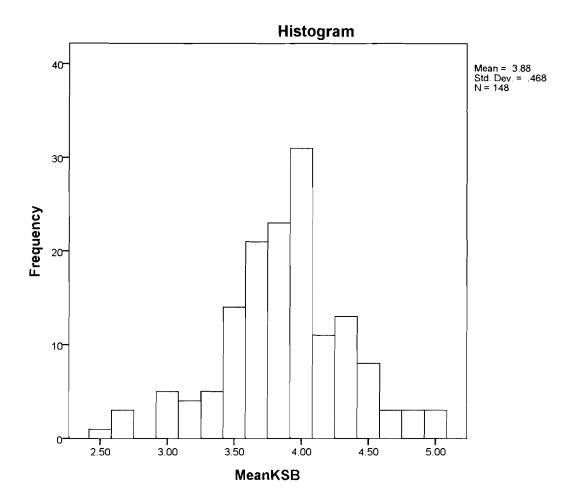
Descriptives

| | | | Statistic | Std. Error |
|--------|-------------------------|-------------|-----------|------------|
| MeanOF | Mean | | 3.4767 | .04734 |
| | 95% Confidence Interval | Lower Bound | 3.3832 | |
| | for Mean | Upper Bound | 3.5703 | |
| | 5% Trimmed Mean | | 3.4708 | |
| | Median | | 3.4444 | |
| | Variance | | .332 | |
| | Std. Deviation | | .57586 | |
| | Minimum | | 2.22 | |
| | Maximum | | 5.00 | |
| | Range | | 2.78 | |
| | Interquartile Range | | .89 | |
| | Skewness | | .082 | .199 |
| | Kurtosis | | 292 | .396 |
| MeanIT | Mean | | 3.2054 | .06389 |
| | 95% Confidence Interval | Lower Bound | 3.0792 | |
| | for Mean | Upper Bound | 3.3317 | |
| | 5% Trimmed Mean | | 3.2231 | |
| | Median | | 3.4000 | |
| | Variance | | .604 | |
| | Std. Deviation | | .77721 | |
| | Minimum | | 1.20 | |
| | Maximum | | 5.00 | |
| | Range | | 3.80 | |
| | Interquartile Range | | 1.20 | |
| | Skewness | | 396 | .199 |
| | Kurtosis | | 325 | .396 |

Tests of Normality

| | Kolmogorov-Smirnov ^a | | | Shapiro-Wilk | | | |
|---------|---------------------------------|-----|------|--------------|-----|------|--|
| | Statistic | df | Sig. | Statistic | df | Sig. | |
| MeanKSB | .124 | 148 | .000 | .972 | 148 | .004 | |
| MeanIF | .100 | 148 | .001 | .976 | 148 | .012 | |
| MeanOF | .080 | 148 | .022 | .987 | 148 | .187 | |
| MeanIT | .113 | 148 | .000 | .964 | 148 | .001 | |

a. Lilliefors Significance Correction

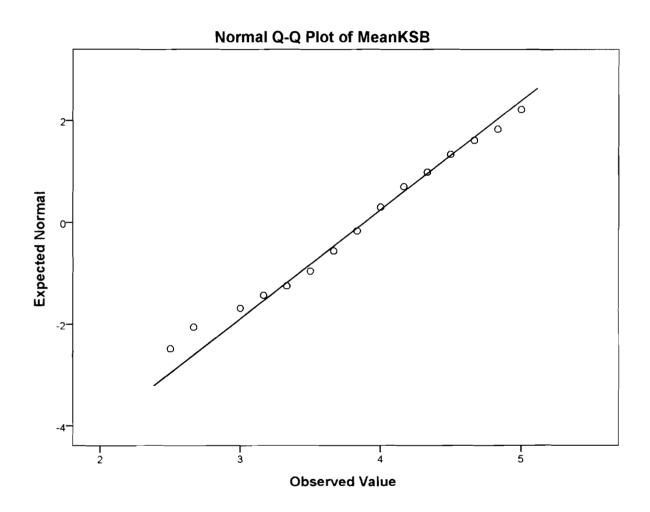


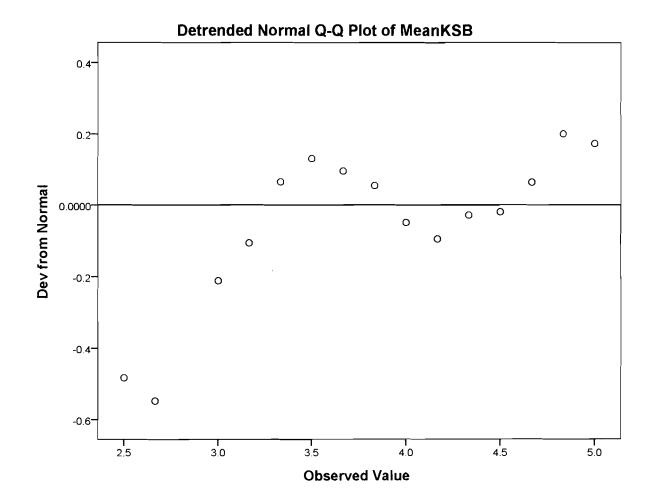
MeanKSB Stem-and-Leaf Plot

| Frequency | y Stem a | & | Leaf |
|-----------|----------|---|---|
| 4.00 | Extremes | | (=<2.67) |
| 5.00 | 30 | | 00000 |
| 4.00 | 31 | | 6666 |
| .00 | 32 | | |
| 5.00 | 33 | | 33333 |
| .00 | 34 | | |
| 14.00 | 35 | | 0000000000000 |
| 21.00 | 36 | | 666666666666666666 |
| .00 | 37 | | |
| 23.00 | 38 | | 33333333333333333333 |
| .00 | 39 | | |
| 31.00 | 40 | | 000000000000000000000000000000000000000 |
| 11.00 | 41 | | 6666666666 |
| .00 | 42 | | |
| 13.00 | 43 | | 333333333333 |
| .00 | 44 | | |

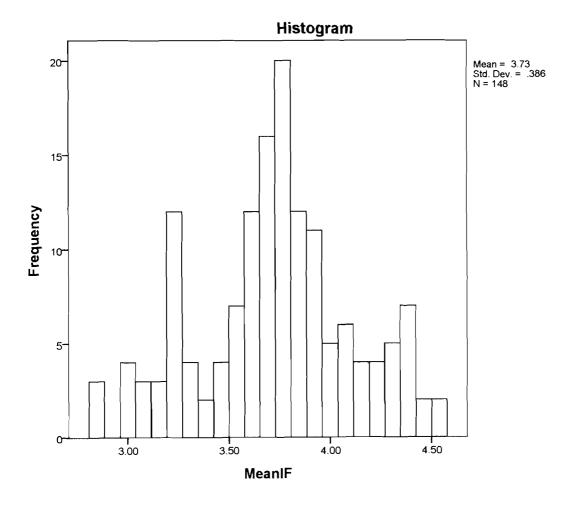
8.00 45 . 00000000 3.00 46 . 666 .00 47 . 3.00 48 . 333 3.00 Extremes (>=5.00)

Stem width: .10
Each leaf: 1 case(s)





MeanIF



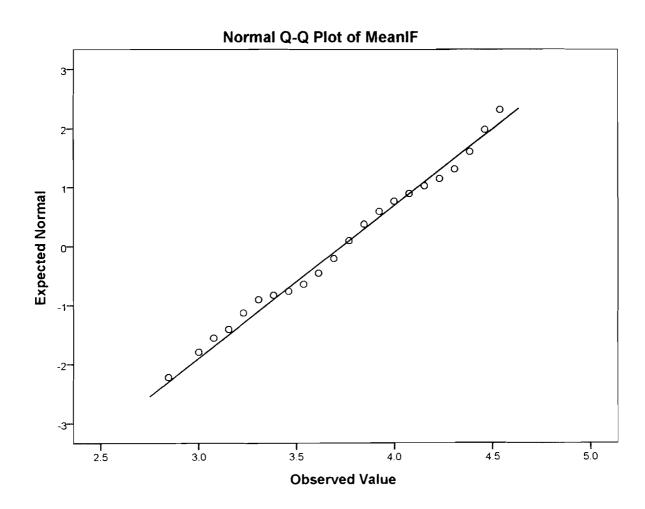
MeanIF Stem-and-Leaf Plot

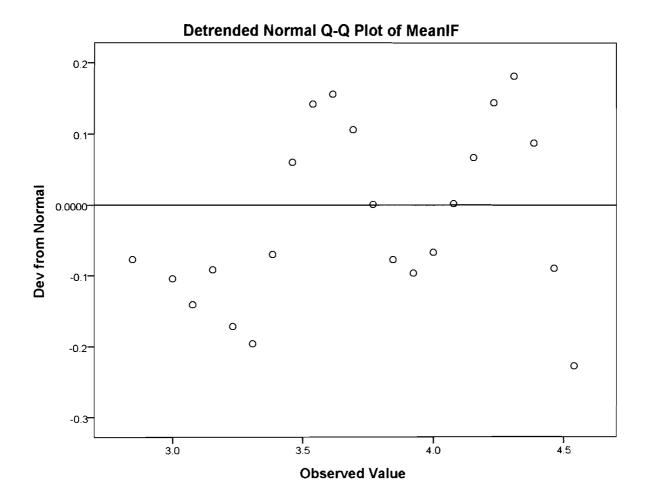
| Frequency | Stem | & | Leaf |
|-----------|----------|---|------------------------------|
| | | | |
| 3.00 | Extremes | | (=<2.85) |
| 7.00 | 30 | • | 0000777 |
| 3.00 | 31 | | 555 |
| 12.00 | 32 | | 33333333333 |
| 6.00 | 33 | | 000088 |
| 4.00 | 34 | | 6666 |
| 7.00 | 35 | | 3333333 |
| 28.00 | 36 | | 1111111111119999999999999999 |
| 20.00 | 37 | | 666666666666666666 |
| 12.00 | 38 | | 44444444444 |
| 11.00 | 39 | | 222222222 |
| 11.00 | 40 | | 00000777777 |
| 4.00 | 41 | | 5555 |
| 4.00 | 42 | | 3333 |
| 12.00 | 43 | | 0000088888888 |
| 2.00 | 44 | | 66 |
| | | | |

2.00 Extremes (>=4.54)

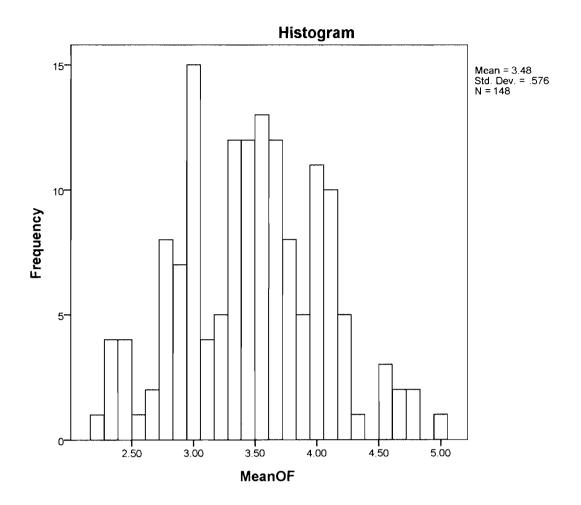
Stem width: .10

Each leaf: 1 case(s)





MeanOF

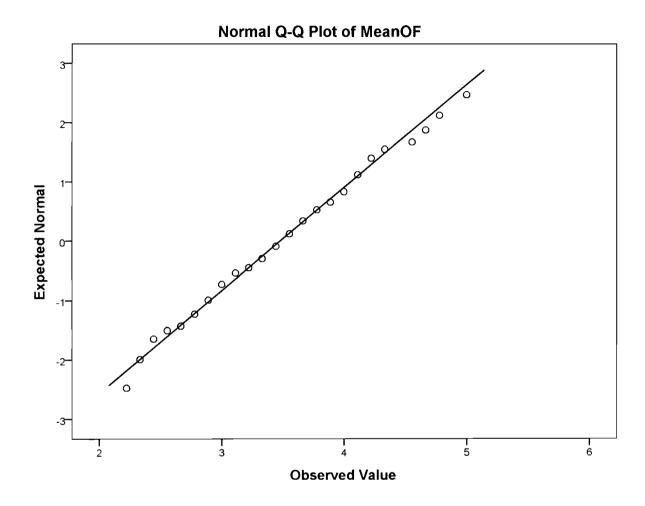


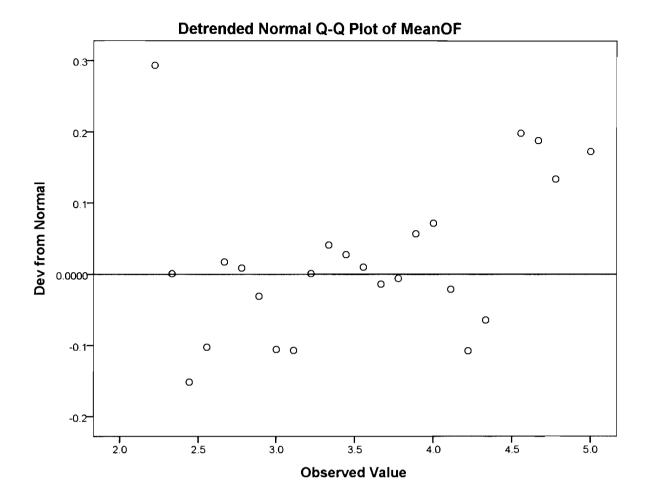
MeanOF Stem-and-Leaf Plot

| Frequency | Stem | & | Leaf |
|-----------|------|---|---------------------------|
| | | | |
| 5.00 | 2 | • | 23333 |
| 5.00 | 2 | | 44445 |
| 10.00 | 2 | | 667777777 |
| 7.00 | 2 | | 888888 |
| 19.00 | 3 | | 000000000000001111 |
| 17.00 | 3 | | 22222333333333333 |
| 25.00 | 3 | | 4444444444455555555555555 |
| 20.00 | 3 | | 6666666666677777777 |
| 5.00 | 3 | | 88888 |
| 21.00 | 4 | | 00000000001111111111 |
| 6.00 | 4 | | 222223 |
| 3.00 | 4 | | 555 |
| 4.00 | 4 | | 6677 |
| .00 | 4 | | |
| 1.00 | 5 | | 0 |
| | | | |

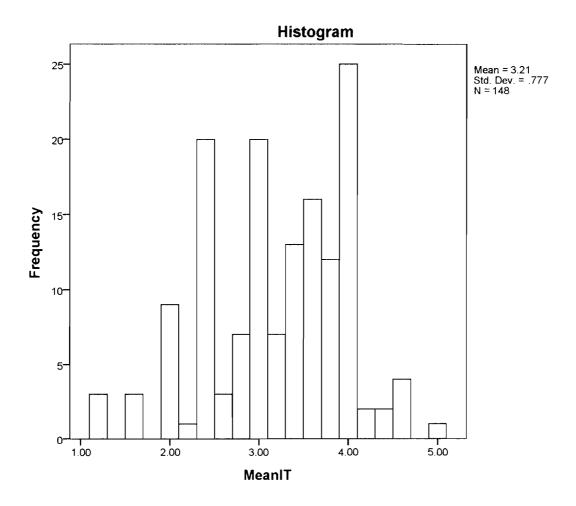
Stem width: 1.00

Each leaf: 1 case(s)



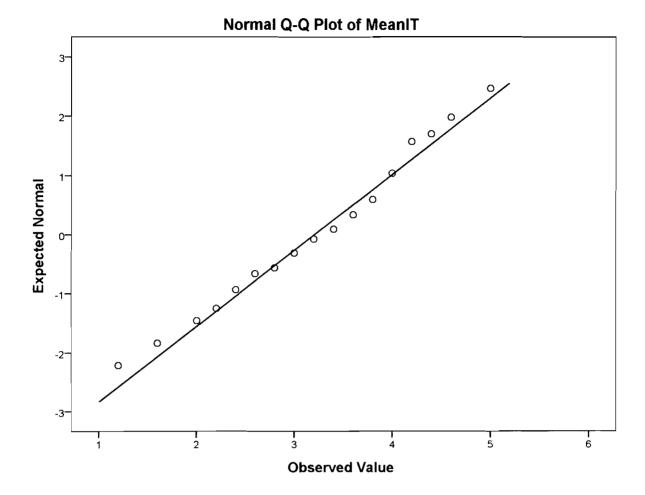


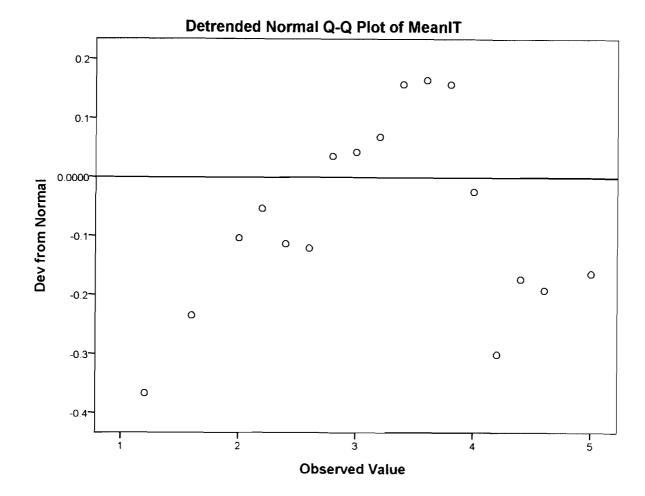
MeanIT



MeanIT Stem-and-Leaf Plot

| Frequency | Stem & | Leaf |
|-------------|--------|---|
| | | |
| 3.00 | 1. | 222 |
| 3.00 | 1. | 666 |
| 30.00 | 2. | 00000000244444444444444444 |
| 10.00 | 2. | 6668888888 |
| 40.00 | 3. | 000000000000000000002222224444444444444 |
| 28.00 | 3. | 666666666666666888888888888 |
| 29.00 | 4. | 0000000000000000000000002244 |
| 4.00 | 4. | 6666 |
| 1.00 | 5. | 0 |
| | | |
| Stem width: | 1.0 | 00 |
| Each leaf: | 1 0 | case(s) |





ONEWAY MeanKSB BY Meansense /STATISTICS HOMOGENEITY /MISSING ANALYSIS.

Oneway

[DataSetl] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test_1.sav

Test of Homogeneity of Variances

MeanKSB

| Levene Statistic | df1 | df2 | Sig. | |
|---------------------|-----|-----|------|--|
| .636 | 10 | 137 | .781 | |

ANOVA

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|-------------------|-----|-------------|-------|------|
| Between Groups | 9.758 | 10 | .976 | 5.959 | .000 |
| Within Groups | 22.434 | 137 | .164 | | |
| Total | 32.192 | 147 | | | |

EXAMINE VARIABLES=MeanKSB BY MeanAttitudes
 /PLOT=BOXPLOT
 /STATISTICS=NONE
 /NOTOTAL.

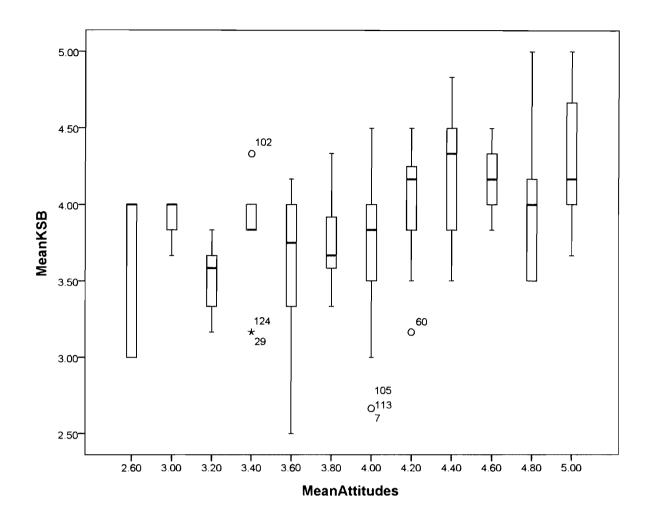
Explore

[DataSet1] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test_1.sav

MeanAttitudes

Case Processing Summary

| | | Cases | | | | | |
|---------|---------------|-------|---------|------|---------|----|---------|
| | | Va | lid | Miss | Missing | | tal |
| | MeanAttitudes | N | Percent | N | Percent | Ν | Percent |
| MeanKSB | 2.60 | 9 | 100.0% | 0 | .0% | 9 | 100.0% |
| | 3.00 | 3 | 100.0% | 0 | .0% | 3 | 100.0% |
| | 3.20 | 6 | 100.0% | 0 | .0% | 6 | 100.0% |
| | 3.40 | 9 | 100.0% | 0 | .0% | 9 | 100.0% |
| | 3.60 | 6 | 100.0% | 0 | .0% | 6 | 100.0% |
| | 3.80 | 23 | 100.0% | 0 | .0% | 23 | 100.0% |
| | 4.00 | 32 | 100.0% | 0 | .0% | 32 | 100.0% |
| | 4.20 | 15 | 100.0% | 0 | .0% | 15 | 100.0% |
| | 4.40 | 17 | 100.0% | 0 | .0% | 17 | 100.0% |
| | 4.60 | 9 | 100.0% | 0 | .0% | 9 | 100.0% |
| | 4.80 | 6 | 100.0% | 0 | .0% | 6 | 100.0% |
| | 5.00 | 13 | 100.0% | 0 | .0% | 13 | 100.0% |



ONEWAY MeanKSB BY MeanAttitudes
/STATISTICS HOMOGENEITY
/MISSING ANALYSIS.

Oneway

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Test of Homogeneity of Variances

MeanKSB

| Levene Statistic | df1 | df2 | Sig. |
|---------------------|-----|-----|------|
| 1.917 | 11 | 136 | .042 |

ANOVA

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|-------------------|-----|-------------|-------|------|
| Between Groups | 8.057 | 11 | .732 | 4.128 | .000 |
| Within Groups | 24.135 | 136 | .177 | | |
| Total | 32.192 | 147 | | | |

ONEWAY MeanKSB BY Meanincentive /STATISTICS HOMOGENEITY /MISSING ANALYSIS.

Oneway

 $[DataSet1] \ C: \ \ Drive \ Thesis \ SPSS \ Actual \ Test_1.sav$

Test of Homogeneity of Variances

MeanKSB

| Levene Statistic | df1 | df2 | Sig. |
|---------------------|-----|-----|------|
| 2.790 | 15 | 131 | .001 |

ANOVA

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|-------------------|-----|-------------|-------|------|
| Between Groups | 4.823 | 16 | .301 | 1.443 | .132 |
| Within Groups | 27.369 | 131 | .209 | | |
| Total | 32.192 | 147 | | | |

ONEWAY MeanKSB BY Meansupport /STATISTICS HOMOGENEITY /MISSING ANALYSIS.

Oneway

[DataSetl] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test_1.sav

Test of Homogeneity of Variances

MeanKSB

| Levene Statistic | df1 | df2 | Sig. |
|---------------------|-----|-----|------|
| 1.293 | 10 | 136 | .241 |

ANOVA

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|-------------------|-----|-------------|-------|------|
| Between Groups | 4.575 | 11 | .416 | 2.048 | .028 |
| Within Groups | 27.617 | 136 | .203 | | |
| Total | 32.192 | 147 | | | |

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT Meansupport

/METHOD=ENTER MeanAttitudes Meansense Meanincentive.

Regression

[DataSet1] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test 1.sav

Variables Entered/Removed^b

| Model | Variables Entered | Variables Removed | Method |
|-------|--|----------------------|--------|
| 1 | Meanincentive , Meansense, MeanAttitudes | | Enter |

- a. All requested variables entered.b. Dependent Variable: Meansupport

Coefficients

| | | Unstandardized Coefficients | | |
|-------|---------------|-----------------------------|------------|--|
| Model | | В | Std. Error | |
| 1 | (Constant) | 1.138 | .382 | |
| | MeanAttitudes | .200 | .092 | |
| | Meansense | .295 | .110 | |
| | Meanincentive | .228 | .061 | |

Coefficients

| | | Standardized Coefficients | - | | Collinearity | Statistics |
|-------|---------------|------------------------------|-------|------|--------------|------------|
| Model | | Beta | t | Sig. | Tolerance | VIF |
| 1 | (Constant) | | 2.982 | .003 | | _ |
| ł | MeanAttitudes | .196 | 2.161 | .032 | .599 | 1.670 |
| | Meansense | .236 | 2.693 | .008 | .644 | 1.553 |
| | Meanincentive | .278 | 3.727 | .000 | .890 | 1.124 |

a. Dependent Variable: Meansupport

Collinearity Diagnostics^a

| Model | Dimension | Eigenvalue | Condition Index |
|-------|-----------|------------|--------------------|
| 1 | 1 | 3.948 | 1.000 |
| | 2 | .035 | 10.548 |
| | 3 | .011 | 18.941 |
| | 4 | .006 | 25.738 |

Collinearity Diagnostics^a

| | - | Variance Proportions | | | |
|-------|-----------|----------------------|---------------|-----------|---------------|
| Model | Dimension | (Constant) | MeanAttitudes | Meansense | Meanincentive |
| 1 | 1 | .00 | .00 | .00 | .00 |
| | 2 | .03 | .02 | .03 | .97 |
| | 3 | .53 | .63 | .00. | .00 |
| | 4 | .44 | .34 | .97 | .02 |

a. Dependent Variable: Meansupport

REGRESSION

/MISSING LISTWISE /STATISTICS COEFF OUTS COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT Meanincentive

/METHOD=ENTER MeanAttitudes Meansense Meansupport.

Regression

[DataSetl] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test 1.sav

Variables Entered/Removed^b

| Model | Variables Entered | Variables Removed | Method |
|-------|---|----------------------|--------|
| 1 | Meansupport, Meansense, MeanAttitudes | | Enter |

a. All requested variables entered.b. Dependent Variable: Meanincentive

Coefficients^a

| | - | Unstandardized Coefficients | | |
|-------|---------------|-----------------------------|------------|--|
| Model | | В | Std. Error | |
| 1 | (Constant) | .916 | 505 | |
| | MeanAttitudes | .287 | .120 | |
| | Meansense | 093 | .146 | |
| | Meansupport | .385 | .103 | |

Coefficients^a

| | | Standardized Coefficients | | | Collinearity | Statistics |
|-------|---------------|------------------------------|-------|------|--------------|------------|
| Model | | Beta | t | Sig. | Tolerance | VIF |
| 1 | (Constant) | | 1.813 | .072 | | |
| | MeanAttitudes | .232 | 2.403 | .018 | .603 | 1.657 |
| | Meansense | 061 | 642 | .522 | .615 | 1.626 |
| | Meansupport | .317 | 3.727 | .000 | .779 | 1.283 |

a. Dependent Variable: Meanincentive

Collinearity Diagnostics^a

| Model | Dimension | Eigenvalue | Condition Index |
|-------|-----------|------------|--------------------|
| 1 | 1 | 3.969 | 1.000 |
| | 2 | .014 | 16.634 |
| | 3 | .011 | 19.052 |
| | 4 | .006 | 25.541 |

Collinearity Diagnostics^a

| | | Variance Proportions | | | | |
|-------|-----------|----------------------|---------------|-----------|-------------|--|
| Model | Dimension | (Constant) | MeanAttitudes | Meansense | Meansupport | |
| 1 | 1 | .00 | .00 | .00 | .00 | |
| | 2 | .03 | .14 | .05 | .97 | |
| | 3 | .57 | .55 | .01 | .03 | |
| | 4 | .40 | .31 | .94 | .00 | |

a. Dependent Variable: Meanincentive

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT Meansense

/METHOD=ENTER MeanAttitudes Meansupport Meanincentive.

Regression

[DataSet1] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test_1.sav

Variables Entered/Removed^b

| Model | Variables Entered | Variables Removed | Method |
|-------|--|----------------------|--------|
| 1 | Meanincentive , Mean Attitudes, Meansupport | | Enter |

a. All requested variables entered.b. Dependent Variable: Meansense

Coefficients a

| | | Unstandardized Coefficients | | |
|-------|---------------|-----------------------------|------------|--|
| Model | | В | Std. Error | |
| 1 | (Constant) | 1.819 | .249 | |
| | MeanAttitudes | .427 | .060 | |
| | Meansupport | .162 | .060 | |
| | Meanincentive | 031 | .048 | |

Coefficients a

| | | Standardized Coefficients | - | _ | Collinearity | Statistics |
|-------|---------------|------------------------------|-------|------|--------------|------------|
| Model | | Beta | t | Sig. | Tolerance | VIF |
| 1 | (Constant) | | 7.295 | .000 | | _ |
| [| MeanAttitudes | .525 | 7.122 | .000 | .785 | 1.275 |
| | Meansupport | .203 | 2.693 | .008 | .746 | 1.340 |
| | Meanincentive | 046 | 642 | .522 | .814 | 1.229 |

a. Dependent Variable: Meansense

Collinearity Diagnostics^a

| Model | Dimension | Eigenvalue | Condition Index |
|-------|-----------|------------|--------------------|
| 1 | 1 | 3.944 | 1.000 |
| | 2 | .032 | 11.087 |
| | 3 | .013 | 17.216 |
| ļ | 4 | .011 | 19.078 |

Collinearity Diagnostics^a

| | · · | Variance Proportions | | | |
|-------|-----------|----------------------|---------------|-------------|---------------|
| Model | Dimension | (Constant) | MeanAttitudes | Meansupport | Meanincentive |
| 1 | 1 | .00 | .00 | .00 | .00 |
| ľ | 2 | .06 | .05 | .03 | .98 |
| | 3 | .05 | .39 | .90 | .01 |
| | 4 | .90 | .56 | .08 | .00 |

a. Dependent Variable: Meansense

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT MeanAttitudes

/METHOD=ENTER Meansupport Meanincentive Meansense.

Regression

[DataSetl] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test_1.sav

Variables Entered/Removed^b

| Model | Variables Entered | Variables Removed | Method |
|-------|--|----------------------|--------|
| 1 | Meansense, Meanincentive , Meansupport | | Enter |

- a. All requested variables entered.
 b. Dependent Variable: MeanAttitudes

Coefficients^a

| | | Unstandardized Coefficients | | |
|-------|---------------|-----------------------------|------------|--|
| Model | | В | Std. Error | |
| 1 | (Constant) | .492 | .347 | |
| | Meansupport | .157 | .073 | |
| ł | Meanincentive | .134 | .056 | |
| | Meansense | .611 | .086 | |

Coefficients

| | | Standardized Coefficients | | | Collinearity | Statistics |
|-------|---------------|------------------------------|-------|------|--------------|------------|
| Model | | Beta | t | Sig. | Tolerance | VIF |
| 1 | (Constant) | | 1.418 | .158 | - | |
| 1 | Meansupport | .160 | 2.161 | .032 | .734 | 1.363 |
| ļ | Meanincentive | .166 | 2.403 | .018 | .844 | 1.185 |
| | Meansense | .496 | 7.122 | .000 | .829 | 1.206 |

a. Dependent Variable: MeanAttitudes

Collinearity Diagnostics a

| Model | Dimension | Eigenvalue | Condition Index |
|-------|-----------|------------|--------------------|
| 1 | 1 | 3.946 | 1.000 |
| | 2 | .034 | 10.746 |
|] | 3 | .013 | 17.323 |
| | 4 | .007 | 23.653 |

Collinearity Diagnostics ^a

| | | | Variance Proportions | | | | | |
|-------|-----------|------------|----------------------|---------------|-----------|--|--|--|
| Model | Dimension | (Constant) | Meansupport | Meanincentive | Meansense | | | |
| 1 | 1 | .00 | .00 | .00 | .00 | | | |
| } | 2 | .04 | .01 | .94 | .05 | | | |
| 1 | 3 | .16 | .97 | .05 | .08 | | | |
| | 4 | .80 | .01 | .01 | .87 | | | |

a. Dependent Variable: MeanAttitudes

GET

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DATASET NAME DataSet1 WINDOW=FRONT.

FACTOR

/VARIABLES KSB1 KSB2 KSB3 KSB4 KSB5 KSB6

/MISSING LISTWISE

/ANALYSIS KSB1 KSB2 KSB3 KSB4 KSB5 KSB6

/PRINT INITIAL CORRELATION SIG DET KMO REPR AIC EXTRACTION ROTATION FSCOR

/FORMAT SORT BLANK(.45)

/CRITERIA MINEIGEN(1) ITERATE(25)

/EXTRACTION PAF

/CRITERIA ITERATE(25)

/ROTATION VARIMAX

/METHOD=CORRELATION.

Factor Analysis

[DataSetl] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test Ain.sav

Correlation Matrix^a

| | | KSB1 | KSB2 | KSB3 | KSB4 | KSB5 | KSB6 |
|-----------------|------|-------|-------|-------|-------|-------|-------|
| Correlation | KSB1 | 1.000 | .299 | .151 | .333 | .386 | .392 |
| | KSB2 | .299 | 1.000 | .322 | .100 | .190 | .181 |
| | KSB3 | .151 | .322 | 1.000 | .001 | 008 | 067 |
| | KSB4 | .333 | .100 | .001 | 1.000 | .443 | .540 |
| | KSB5 | .386 | .190 | 008 | .443 | 1.000 | .599 |
| | KSB6 | .392 | .181 | 067 | .540 | .599 | 1.000 |
| Sig. (1-tailed) | KSB1 | | .000 | .033 | .000 | .000 | .000 |
| | KSB2 | .000 | | .000 | .112 | .010 | .014 |
| | KSB3 | .033 | .000 | | .493 | .460 | .208 |
| | KSB4 | .000 | .112 | .493 | | .000 | .000 |
| | KSB5 | .000 | .010 | .460 | .000 | ' | .000 |
| | KSB6 | .000 | .014 | .208 | .000 | .000 | |

a. Determinant = .274

KMO and Bartlett's Test

| Kaiser-Meyer-Olkin Me | Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | | |
|-----------------------|--|---------|--|
| Bartlett's Test of | Approx. Chi-Square | 186.523 | |
| Sphericity | df | 15 | |
| _ | Sig. | .000 | |

Anti-image Matrices

| | | KSB1 | KSB2 | KSB3 | KSB4 | KSB5 | KSB6 |
|------------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Anti-image Covariance | KSB1 | .742 | 150 | 092 | 091 | 109 | 096 |
| | KSB2 | 150 | .815 | 260 | .040 | 045 | 057 |
| | KSB3 | ~.092 | 260 | .867 | 024 | .016 | .092 |
| | KSB4 | 091 | .040 | 024 | .673 | 097 | 212 |
| | KSB5 | 109 | 045 | .016 | 097 | .598 | 237 |
| | KSB6 | 096 | 057 | .092 | 212 | 237 | .522 |
| Anti-image Correlation | KSB1 | .818 ^a | 192 | 115 | 129 | 163 | 154 |
| | KSB2 | 192 | .649 ^a | 309 | .054 | 065 | 087 |
| | KSB3 | 115 | 309 | .505 ^a | 031 | .022 | .137 |
| | KSB4 | 129 | .054 | 031 | .780 ^a | 152 | 357 |
| | KSB5 | 163 | 065 | .022 | 152 | .760 ^a | 424 |
| | KSB6 | - 154 | 087 | .137 | 357 | 424 | .702 ^a |

a. Measures of Sampling Adequacy(MSA)

Communalities

| | Initial | Extraction |
|------|---------|------------|
| KSB1 | .258 | .354 |
| KSB2 | .185 | .402 |
| KSB3 | .133 | .307 |
| KSB4 | .327 | .400 |
| KSB5 | .402 | .514 |
| KSB6 | .478 | .708 |

Extraction Method: Principal Axis Factoring.

Total Variance Explained

| | | Initial Eigenvalu | ies | Extraction | on Sums of Squar | ed Loadings |
|--------|-------|-------------------|--------------|------------|------------------|--------------|
| Factor | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 2.467 | 41.109 | 41.109 | 1.980 | 32.995 | 32.995 |
| 2 | 1.330 | 22.160 | 63.268 | .706 | 11.762 | 44.757 |
| 3 | .676 | 11.274 | 74.543 | | | |
| 4 | .619 | 10.316 | 84.859 | | | |
| 5 | .536 | 8.927 | 93.785 | | | |
| 6 | .373 | 6.215 | 100.000 | | | |

Total Variance Explained

| | Rotation Sums of Squared Loadings | | | | | |
|--------|-----------------------------------|---------------|--------------|--|--|--|
| Factor | Total | % of Variance | Cumulative % | | | |
| 1 | 1.892 | 31.538 | 31.538 | | | |
| 2 | .793 | 13.219 | 44.757 | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

| | Factor | | | | | |
|------|--------|------|--|--|--|--|
| | 1 | 2 | | | | |
| KSB6 | .812 | | | | | |
| KSB5 | .709 | | | | | |
| KSB4 | .616 | | | | | |
| KSB1 | .561 | | | | | |
| KSB3 | | .548 | | | | |
| KSB2 | | .535 | | | | |

Extraction Method: Principal Axis Factoring.

a. 2 factors extracted. 12 iterations required.

Reproduced Correlations

| | | KSB1 | KSB2 | KSB3 | KSB4 | KSB5 | KSB6 |
|------------------------|------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Reproduced Correlation | KSB1 | 354 ^a | .298 | .155 | .317 | .377 | .411 |
| | KSB2 | .298 | .402 ^a | .321 | .134 | .186 | .159 |
| | KSB3 | .155 | .321 | .307 ^a | 027 | .001 | 055 |
| | KSB4 | .317 | .134 | 027 | .400 ^a | 452 | .532 |
| | KSB5 | .377 | .186 | .001 | .452 | .514 ^a | .599 |
| | KSB6 | .411 | .159 | 055 | .532 | .599 | .708 ^a |
| Residual | KSB1 | | .001 | 003 | .016 | .009 | 020 |
| | KSB2 | .001 | | .001 | 034 | .004 | .022 |
| | KSB3 | 003 | .001 | | .029 | ~.009 | 012 |
| | KSB4 | .016 | 034 | .029 | | 009 | .008 |
| | KSB5 | .009 | .004 | 009 | 009 | | .000 |
| | KSB6 | 020 | .022 | 012 | .008 | .000 | |

Extraction Method: Principal Axis Factoring.

a. Reproduced communalities

b. Residuals are computed between observed and reproduced correlations. There are 0 (.0%) nonredundant residuals with absolute values greater than 0.05.

Rotated Factor Matrix^a

| | Fac | Factor | | | | | |
|------|------|--------|--|--|--|--|--|
| | 1 | 2 | | | | | |
| KSB6 | .842 | | | | | | |
| KSB5 | .712 | | | | | | |
| KSB4 | .632 | | | | | | |
| KSB1 | .489 | | | | | | |
| KSB2 | | .606 | | | | | |
| KSB3 | | .550 | | | | | |

Extraction Method: Principal Axis Factoring. Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in3 iterations.

Factor Transformation Matrix

| Factor | 1 | 2 |
|--------|------|------|
| 1 | .965 | .262 |
| 2 | 262 | .965 |

Extraction Method: Principal Axis Factoring. Rotation Method: Varimax with Kaiser Normalization.

Factor Score Coefficient Matrix

| | Factor | | | |
|------|--------|------|--|--|
| | 1 | 2 | | |
| KSB1 | .124 | .204 | | |
| KSB2 | .002 | .451 | | |
| KSB3 | 047 | .365 | | |
| KSB4 | .188 | 023 | | |
| KSB5 | .262 | .015 | | |
| KSB6 | .532 | 132 | | |

Extraction Method: Principal Axis Factoring. Rotation Method: Varimax with Kaiser Normalization.

Factor Score Covariance Matrix

| Factor | 1 | 2 |
|--------|------|------|
| 1 | .816 | .045 |
| 2 | .045 | .544 |

Extraction Method: Principal Axis Factoring. Rotation Method: Varimax with Kaiser Normalization.

```
FACTOR

/VARIABLES IF1 IF2 IF3 IF4 IF5 IF6 IF7 IF8 IF9 IFF10 IF11 IFF12 IF13

/MISSING LISTWISE

/ANALYSIS IF1 IF2 IF3 IF4 IF5 IF6 IF7 IF8 IF9 IFF10 IF11 IFF12 IF13

/PRINT INITIAL CORRELATION SIG DET KMO REPR AIC EXTRACTION ROTATION FSCOR

E

/FORMAT SORT BLANK(.45)

/CRITERIA MINEIGEN(1) ITERATE(25)

/EXTRACTION PAF

/CRITERIA ITERATE(25)

/ROTATION VARIMAX
```

Factor Analysis

/METHOD=CORRELATION.

[DataSet2] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test_1.sav

Correlation Matrix^a

| _ | | IF1 | IF2 | IF3 | IF4 | IF5 | IF6 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|
| Correlation | IF1 | 1.000 | .408 | .527 | .480 | .399 | .440 |
| | IF2 | .408 | 1.000 | .582 | .478 | .374 | .326 |
| | IF3 | .527 | .582 | 1.000 | .636 | .410 | .402 |
| | IF4 | .480 | .478 | .636 | 1.000 | .715 | .582 |
| | IF5 | .399 | .374 | .410 | .715 | 1.000 | .490 |
| | IF6 | .440 | .326 | .402 | .582 | .490 | 1.000 |
| | IF7. | .366 | .251 | .280 | .367 | .276 | .452 |
| | IF8 | .452 | .169 | .264 | .410 | .442 | .615 |
| | IF9 | .530 | .217 | .361 | .539 | .542 | .669 |
| | IFF10 | 156 | 029 | 112 | 146 | 256 | 217 |
| | IF11 | .390 | .180 | .291 | .457 | .342 | .630 |
| | IFF12 | 187 | 214 | 309 | 347 | 303 | 355 |
| | IF13 | .344 | .205 | .342 | .477 | .364 | .492 |
| Sig. (1-tailed) | IF1 | | .000 | .000 | .000 | .000 | .000 |
| | IF2 | .000 | ' | .000 | .000 | .000 | .000 |
| | IF3 | .000 | .000 | | .000 | .000 | .000 |
| | IF4 | .000 | .000 | .000 | | .000 | .000 |
| | IF5 | .000 | .000 | .000 | .000 | | .000 |
| | IF6 | .000 | .000 | .000 | .000 | .000 | |
| | IF7. | .000 | .001 | .000 | .000 | .000 | .000 |
| | IF8 | .000 | .020 | .001 | .000 | .000 | .000 |
| | IF9 | .000 | .004 | .000 | .000 | .000 | .000 |
| | IFF10 | .029 | .361 | .087 | .039 | .001 | .004 |
| | IF11 | .000 | .014 | .000 | .000 | .000 | .000 |
| | IFF12 | .011 | .004 | .000 | .000 | .000 | .000 |
| | IF13 | .000 | .006 | .000 | .000 | .000 | .000 |

Correlation Matrix^a

| | | IF7. | IF8 | IF9 | IFF10 | IF11 |
|-----------------|-------|-------|-------|-------|-------|-------|
| Correlation | IF1 | 366 | .452 | .530 | 156 | .390 |
| | IF2 | .251 | .169 | .217 | 029 | .180 |
| | IF3 | .280 | .264 | .361 | 112 | .291 |
| 1 | IF4 | .367 | .410 | .539 | 146 | .457 |
| | IF5 | .276 | .442 | .542 | 256 | .342 |
| | IF6 | .452 | .615 | .669 | 217 | .630 |
| | IF7. | 1.000 | .394 | .392 | .000 | .369 |
| | IF8 | .394 | 1.000 | .652 | 092 | .542 |
| | IF9 | .392 | .652 | 1.000 | 151 | .552 |
| | IFF10 | .000 | 092 | 151 | 1.000 | 304 |
| | IF11 | .369 | .542 | .552 | 304 | 1.000 |
| | IFF12 | 097 | 173 | 185 | .473 | 203 |
| | IF13 | .315 | .494 | .487 | ~.204 | .738 |
| Sig. (1-tailed) | IF1 | .000 | .000 | .000 | .029 | .000 |
| | IF2 | .001 | .020 | .004 | .361 | .014 |
| | IF3 | .000 | .001 | .000 | .087 | .000 |
| | IF4 | .000 | .000 | .000 | .039 | .000 |
| | IF5 | .000 | .000 | .000 | .001 | .000 |
| | IF6 | .000 | .000 | .000 | .004 | .000 |
| | IF7. | | .000 | .000 | .500 | .000 |
| | IF8 | .000 |) | .000 | .132 | .000 |
| | IF9 | .000 | .000 | | .033 | .000 |
| | IFF10 | .500 | .132 | .033 | | .000 |
| | IF11 | .000 | .000 | .000 | .000 | |
| | IFF12 | .121 | .018 | .012 | .000 | .007 |
| | IF13 | .000 | .000 | .000 | .006 | .000 |

Correlation Matrix^a

| | _ | IFF12 | IF13 |
|-----------------|-------|-------|-------|
| Correlation | IF1 | 187 | .344 |
| | IF2 | 214 | .205 |
| | IF3 | 309 | .342 |
| | lF4 | 347 | .477 |
| | IF5 | 303 | .364 |
| | IF6 | 355 | .492 |
| | IF7. | 097 | .315 |
| | IF8 | 173 | .494 |
| | IF9 | 185 | .487 |
| | IFF10 | .473 | - 204 |
| | IF11 | 203 | .738 |
| | IFF12 | 1.000 | 264 |
| | IF13 | 264 | 1.000 |
| Sig. (1-tailed) | IF1 | .011 | .000 |
| | IF2 | .004 | .006 |
| | IF3 | .000 | .000 |
| | IF4 | .000 | .000 |
| | IF5 | .000 | .000 |
| | IF6 | .000 | .000 |
| | IF7. | .121 | .000 |
| | IF8 | .018 | .000 |
| | IF9 | .012 | .000 |
| | IFF10 | .000 | .006 |
| | IF11 | .007 | .000 |
| | IFF12 | | .001 |
| | IF13 | .001 | |

a. Determinant = .001

KMO and Bartlett's Test

| Kaiser-Meyer-Olkin Me | .841 | |
|----------------------------------|--------------------|---------|
| Bartlett's Test of Sphericity | Approx. Chi-Square | 937.912 |
| 1 | df | 78 |
| | Sig | .000 |

Anti-image Matrices

| | | IF1 | IF2 | IF3 | IF4 | IF5 | IF6 |
|------------------------|-------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| Anti-image Covariance | IF1 | .542 | 090 | 129 | 009 | .010 | .033 |
| | IF2 | 090 | .594 | 182 | 018 | 069 | 054 |
| | IF3 | 129 | 182 | .441 | 133 | .058 | .001 |
| | IF4 | 009 | 018 | 133 | .290 | 188 | 048 |
| | IF5 | .010 | 069 | .058 | 188 | .399 | .009 |
| | IF6 | .033 | 054 | .001 | 048 | .009 | .349 |
| | IF7. | 075 | 038 | .005 | 027 | .013 | 081 |
| | IF8 | 077 | .040 | .017 | .048 | 073 | 090 |
| | IF9 | 108 | .069 | 007 | 013 | 079 | 108 |
| | IFF10 | .059 | 061 | .006 | 076 | .124 | 007 |
| | IF11 | 022 | .008 | .026 | 030 | .054 | 105 |
| | IFF12 | 024 | .015 | .050 | .048 | 010 | .109 |
| | IF13 | .025 | .006 | 034 | 032 | 006 | .056 |
| Anti-image Correlation | IF1 | .902 ^a | 159 | 264 | 022 | .021 | .076 |
| | IF2 | 159 | 844 ^a | 355 | 043 | 142 | 118 |
| | IF3 | 264 | 355 | .838 ^a | 371 | .139 | .002 |
| | IF4 | 022 | 043 | 371 | .839 ^a | 551 | 149 |
| | IF5 | .021 | 142 | .139 | 551 | .814 ^a | .025 |
| | IF6 | .076 | 118 | .002 | 149 | .025 | .882 ^a |
| | IF7. | -,119 | 058 | .009 | 059 | .024 | 160 |
| | IF8 | 155 | .076 | .037 | .131 | 171 | 226 |
| | IF9 | 238 | .146 | 017 | 040 | 204 | 298 |
| | IFF10 | .100 | 098 | .010 | 177 | .245 | 015 |
| | IF11 | 053 | .019 | .070 | 100 | .153 | 317 |
| | IFF12 | 041 | .025 | .095 | .113 | 021 | .233 |
| | IF13 | .053 | .012 | 080 | 094 | 014 | .148 |

Anti-image Matrices

| | | IF7. | IF8 | IF9 | IFF10 | IF11 |
|------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Anti-image Covariance | IF1 | 075 | 077 | 108 | .059 | 022 |
| | IF2 | 038 | .040 | .069 | 061 | .008 |
| | IF3 | .005 | .017 | 007 | .006 | .026 |
| | IF4 | 027 | .048 | 013 | 076 | 030 |
| | IF5 | .013 | 073 | 079 | .124 | .054 |
| | IF6 | 081 | 090 | 108 | 007 | 105 |
| | IF7. | .724 | - 048 | 007 | 065 | 028 |
| | IF8 | 048 | .455 | 107 | 074 | 035 |
| | IF9 | 007 | -, 107 | .378 | 010 | 018 |
| | IFF10 | 065 | 074 | 010 | .642 | .133 |
| | IF11 | 028 | 035 | 018 | .133 | .313 |
| | IFF12 | 025 | .013 | 048 | 287 | 092 |
| | IF13 | 006 | 054 | 022 | 044 | 211 |
| Anti-image Correlation | IF1 | - 119 | 155 | 238 | .100 | 053 |
| | IF2 | 058 | .076 | .146 | 098 | .019 |
| | IF3 | .009 | .037 | 017 | .010 | .070 |
| | IF4 | 059 | .131 | 040 | 177 | 100 |
| | IF5 | .024 | 171 | 204 | .245 | .153 |
| | IF6 | 160 | 226 | 298 | 015 | 317 |
| | IF7. | .948 ^a | 084 | 014 | 096 | 059 |
| | IF8 | 084 | .900 ^a | 257 | 137 | 092 |
| | IF9 | 014 | - 257 | .901 ^a | 021 | -,052 |
| | IFF10 | 096 | 137 | 021 | .560 ^a | .298 |
| | IF11 | 059 | 092 | 052 | .298 | .789 ^a |
| | IFF12 | 037 | .024 | 100 | 453 | 208 |
| | IF13 | 012 | 127 | 056 | 086 | 594 |

Anti-image Matrices

| | | IFF12 | IF13 |
|------------------------|-------|-------------------|-------------------|
| Anti-image Covariance | IF1 | 024 | .025 |
| | IF2 | .015 | .006 |
| | IF3 | .050 | 034 |
| | IF4 | .048 | 032 |
| | IF5 | 010 | 006 |
| | IF6 | .109 | .056 |
| | IF7. | 025 | 006 |
| | IF8 | .013 | 054 |
| | IF9 | 048 | 022 |
| | IFF10 | 287 | 044 |
| | IF11 | 092 | - 211 |
| | IFF12 | .626 | .080 |
| | IF13 | .080 | .404 |
| Anti-image Correlation | IF1 | 041 | .053 |
| | IF2 | .025 | .012 |
| | IF3 | .095 | 080 |
| | IF4 | .113 | 094 |
| | IF5 | 021 | 014 |
| | IF6 | .233 | .148 |
| | IF7. | 037 | 012 |
| | íF8 | .024 | - 127 |
| | IF9 | 100 | 056 |
| | IFF10 | 453 | 086 |
| | IF11 | 208 | 594 |
| | IFF12 | .717 ^a | .159 |
| | IF13 | .159 | .826 ^a |

a. Measures of Sampling Adequacy(MSA)

Communalities

| | Initial | Extraction |
|-------|---------|------------|
| IF1 | .458 | .436 |
| IF2 | .406 | .483 |
| IF3 | .559 | .640 |
| IF4 | .710 | .707 |
| IF5 | .601 | .474 |
| IF6 | .651 | .652 |
| IF7. | .276 | .294 |
| IF8 | .545 | .595 |
| IF9 | .622 | .644 |
| IFF10 | .358 | .576 |
| IF11 | .687 | .663 |
| IFF12 | .374 | .444 |
| IF13 | .596 | .497 |

Extraction Method: Principal Axis Factoring.

Total Variance Explained

| | Initial Eigenvalues | | | Extractio | n Sums of Square | ed Loadings |
|--------|---------------------|---------------|--------------|-----------|------------------|--------------|
| Factor | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 5.639 | 43.378 | 43.378 | 5.212 | 40.096 | 40.096 |
| 2 | 1.437 | 11.056 | 54.434 | 1.015 | 7.810 | 47.906 |
| 3 | 1.364 | 10.492 | 64.927 | .878 | 6.752 | 54.658 |
| 4 | .775 | 5.964 | 70.890 | | | |
| 5 | .718 | 5.525 | 76.416 | | | |
| 6 | .659 | 5.067 | 81.483 | | | |
| 7 | .554 | 4.261 | 85.744 | | | |
| 8 | .470 | 3.619 | 89.362 | | | į |
| 9 | .398 | 3.062 | 92.425 | 1 | | |
| 10 | .333 | 2.559 | 94.983 | | | |
| 11 | .285 | 2.190 | 97.173 | | | |
| 12 | .191 | 1.467 | 98.640 | | | |
| 13 | .177 | 1.360 | 100.000 | | | _ |

Total Variance Explained

| | Rotation Sums of Squared Loadings | | | | | |
|--------|-----------------------------------|---------------|--------------|--|--|--|
| Factor | Total | % of Variance | Cumulative % | | | |
| 1 | 3.482 | 26.786 | 26.786 | | | |
| 2 | 2.406 | 18.510 | 45.296 | | | |
| 3 | 1.217 | 9.363 | 54.658 | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

| | Factor | | | | | |
|-------|--------|------|------|--|--|--|
| | 1 | 2 | 3 | | | |
| IF4 | .792 | | | | | |
| IF6 | .791 | | | | | |
| IF9 | .757 | | | | | |
| IF11 | .711 | | | | | |
| IF8 | .680 | | | | | |
| IF5 | .670 | | | | | |
| IF13 | .657 | | | | | |
| IF1 | .637 | | | | | |
| IF3 | .633 | .487 | | | | |
| IF7. | .496 | | | | | |
| IF2 | .482 | .491 | | | | |
| IFF10 | | | .696 | | | |
| IFF12 | | | .508 | | | |

Extraction Method: Principal Axis Factoring.

a. Attempted to extract 3 factors. More than 25 iterations required. (Convergence=.001). Extraction was terminated.

| - | | IF1 | IF2 | IF3 | IF4 | IF5 |
|------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Reproduced Correlation | IF1 | .436 ^a | .381 | .471 | 543 | .439 |
| | IF2 | .381 | .483 ^a | .549 | .522 | .389 |
| | IF3 | .471 | .549 | .640 ^a | .639 | .493 |
| | IF4 | .543 | .522 | .639 | .707 ^a | .570 |
| | IF5 | 439 | .389 | .493 | .570 | .474 ^a |
| | IF6 | .485 | .304 | .424 | .582 | .506 |
| | IF7. | .334 | .230 | .294 | .382 | .312 |
| | IF8 | .414 | .188 | .284 | .454 | .400 |
| | IF9 | .473 | .272 | .380 | .543 | .467 |
| | IFF10 | 093 | 036 | 117 | 193 | 225 |
| | IF11 | .395 | .144 | .257 | .452 | .423 |
| | IFF12 | 215 | 216 | 303 | 348 | 322 |
| | IF13 | .381 | .188 | .291 | .449 | .407 |
| Residual | IF1 | | .027 | .056 | 063 | ~.040 |
| | IF2 | .027 | | .033 | 044 | 015 |
| | IF3 | .056 | .033 | | 004 | 083 |
| | IF4 | 063 | 044 | 004 | | .145 |
| | IF5 | 040 | 015 | 083 | .145 | |
| | IF6 | 045 | .023 | 021 | 001 | 017 |
| | IF7 . | .032 | .021 | 015 | 015 | 035 |
| | IF8 | .038 | 019 | 019 | 044 | .043 |
| | IF9 | .057 | 055 | 019 | 004 | .075 |
| | IFF10 | 063 | .007 | .004 | .047 | 031 |
| | IF11 | 005 | .036 | .034 | .005 | 081 |
| | IFF12 | .028 | .002 | 006 | .002 | .019 |
| | IF13 | 036 | .016 | .051 | .028 | 043 |

| | | IF6 | IF7. | IF8 | IF9 | IFF10 |
|------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Reproduced Correlation | IF1 | .485 | .334 | .414 | 473 | 093 |
| | IF2 | .304 | .230 | .188 | .272 | 036 |
| | IF3 | .424 | .294 | .284 | .380 | 117 |
| | \F4 | .582 | .382 | .454 | .543 | 193 |
| | IF5 | .506 | .312 | .400 | .467 | 225 |
| | IF6 | .652 ^a | .404 | .591 | .636 | 236 |
| | IF7. | .404 | .294 ^a | .393 | .420 | 003 |
| | IF8 | .591 | .393 | .595 ^a | .611 | 102 |
| | IF9 | .636 | .420 | .611 | .644 ^a | 134 |
| | IFF10 | 236 | 003 | 102 | 134 | .576 ^a |
| | IF11 | .624 | .363 | .597 | .615 | 282 |
| | IFF12 | 293 | 085 | 142 | 200 | .462 |
| | IF13 | .560 | .331 | .518 | .545 | 246 |
| Residual | IF1 | 045 | .032 | .038 | .057 | 063 |
| | íF2 | .023 | .021 | 019 | 055 | .007 |
| | IF3 | 021 | 015 | 019 | 019 | .004 |
| | IF4 | 001 | 015 | 044 | 004 | .047 |
| | IF5 | 017 | 035 | .043 | .075 | 031 |
| | IF6 | | .047 | .023 | .033 | .019 |
| | IF7. | .047 | | .001 | 029 | .003 |
| | IF8 | .023 | .001 | | .040 | .009 |
| | IF9 | .033 | 029 | .040 | | 017 |
| | IFF10 | .019 | .003 | .009 | 017 | |
| | IF11 | .006 | .006 | 055 | 063 | 022 |
| | IFF12 | 062 | 011 | 031 | .015 | .011 |
| | IF13 | 068 | 016 | 024 | 058 | .042 |

| | | IF11 | IFF12 | IF13 |
|------------------------|-------|-------------------|-------------------|-------------------|
| Reproduced Correlation | IF1 | .395 | 215 | .381 |
| | IF2 | .144 | 216 | .188 |
| | IF3 | . 257 | 303 | .291 |
| | IF4 | .452 | 348 | .449 |
| | IF5 | .423 | 322 | .407 |
| | IF6 | .624 | 293 | .560 |
| | IF7 | .363 | 085 | .331 |
| | IF8 | .597 | 142 | .518 |
| | IF9 | .615 | 200 | .545 |
| | IFF10 | 282 | .462 | 246 |
| | IF11 | .663 ^a | 265 | .568 |
| | IFF12 | 265 | .444 ^a | 256 |
| | IF13 | .568 | - 256 | .497 ^a |
| Residual ^b | IF1 | 005 | .028 | 036 |
| | IF2 | .036 | .002 | .016 |
| | IF3 | .034 | 006 | .051 |
| | IF4 | .005 | .002 | .028 |
| | IF5 | 081 | .019 | 043 |
| | IF6 | .006 | 062 | 068 |
| | IF7. | .006 | 011 | 016 |
| | IF8 | 055 | 031 | 024 |
| | IF9 | 063 | .015 | 058 |
| | IFF10 | 022 | .011 | .042 |
| | IF11 | | .063 | .170 |
| | IFF12 | .063 | | 008 |
| | IF13 | .170 | 008 | |

Extraction Method: Principal Axis Factoring.

a. Reproduced communalities b. Residuals are computed between observed and reproduced correlations. There are 17 (21.0%) nonredundant residuals with absolute values greater than 0.05.

Rotated Factor Matrix

| , | Factor | | | | |
|-------|--------|------|-----|--|--|
| | 1 | 2 | 3 | | |
| IF11 | .766 | | | | |
| IF8 | .753 | | | | |
| IF9 | .747 | | | | |
| IF6 | .706 | | | | |
| IF13 | .644 | | | | |
| IF7. | .464 | | | | |
| IF3 | | .762 | | | |
| IF2 | | .687 | | | |
| IF4 | | .686 | | | |
| IF5 | | .494 | | | |
| IF1 | | .489 | | | |
| IFF10 | | | 750 | | |
| IFF12 | | | 601 | | |

Extraction Method: Principal Axis Factoring.
Rotation Method: Varimax with Kaiser Normalization

a. Rotation converged in 5 iterations.

Factor Transformation Matrix

| Factor | 1 | 2 | 3 |
|--------|------|------|------|
| 1 | .768 | .577 | .280 |
| 2 | 601 | .799 | .002 |
| 3 | .222 | .170 | 960 |

Extraction Method: Principal Axis Factoring.
Rotation Method: Varimax with Kaiser Normalization.

Factor Score Coefficient Matrix

| | | Factor | |
|-------|------|--------|------|
| | 1 | 2 | 3 |
| IF1 | .037 | .112 | 053 |
| IF2 | 090 | .275 | 046 |
| IF3 | 124 | .384 | 005 |
| IF4 | 004 | .360 | .045 |
| IF5 | .010 | .065 | .057 |
| IF6 | .175 | .006 | .046 |
| IF7. | .072 | .031 | 087 |
| IF8 | .257 | 063 | 099 |
| IF9 | .257 | 023 | 098 |
| IFF10 | .073 | .069 | 567 |
| IF11 | .336 | 218 | .080 |
| IFF12 | .063 | 022 | 317 |
| IF13 | .113 | 053 | .062 |

Extraction Method: Principal Axis Factoring.
Rotation Method: Varimax with Kaiser Normalization.

Factor Score Covariance Matrix

| Factor | 1 | 2 | 3 |
|--------|------|------|------|
| 1 | .842 | .090 | .060 |
| 2 | .090 | .787 | .042 |
| 3 | .060 | .042 | .674 |

Extraction Method: Principal Axis Factoring.
Rotation Method: Varimax with Kaiser Normalization.

RELIABILITY

/VARIABLES=IF11 IF8 IF9 IF6 IF13 IF7
/SCALE('ALL VARIABLES') ALL
/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.

Reliability

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Scale: ALL VARIABLES

Case Processing Summary

| | | N | % |
|-------|------------|-----|-------|
| Cases | Valid | 148 | 100.0 |
| | Excluded a | 0 | .0 |
| | Total | 148 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

| Cronbach's Alpha | N of Items |
|---------------------|------------|
| .863 | 6 |

Item Statistics

| | Mean | Std. Deviation | N |
|------|--------|----------------|-----|
| IF11 | 4.0135 | .74675 | 148 |
| IF8 | 3.6757 | .85090 | 148 |
| IF9 | 4.1081 | .64031 | 148 |
| IF6 | 4.1689 | .70362 | 148 |
| IF13 | 4.0405 | .72729 | 148 |
| IF7. | 4.0541 | .76295 | 148 |

Item-Total Statistics

| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
|------|-------------------------------|--------------------------------------|--|--|
| IF11 | 20.0473 | 8.086 | .730 | .826 |
| IF8 | 20.3851 | 7.762 | .687 | .836 |
| IF9 | 19.9527 | 8.658 | .710 | .833 |
| IF6 | 19.8919 | 8.260 | .739 | .826 |
| IF13 | 20.0203 | 8.496 | .641 | .843 |
| IF7. | 20.0068 | 9.014 | .469 | .873 |

Scale Statistics

| Mean | Variance | Std. Deviation | N of Items |
|---------|----------|----------------|------------|
| 24.0608 | 11.745 | 3.42704 | 6 |

RELIABILITY

/VARIABLES=IF3 IF2 IF4 IF5 IF1 /SCALE('ALL VARIABLES') ALL /MODEL=ALPHA /STATISTICS=DESCRIPTIVE SCALE /SUMMARY=TOTAL.

Reliability

Scale: ALL VARIABLES

Case Processing Summary

| | | N | % |
|-------|-----------------------|-----|-------|
| Cases | Valid | 148 | 100.0 |
| | Excluded ^a | 0 | .0 |
| | Total | 148 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

| Cronbach's Alpha | N of Items |
|---------------------|------------|
| .832 | 5 |

Item Statistics

| | Mean | Std. Deviation | N |
|-----|--------|----------------|-----|
| IF3 | 4.0541 | .59228 | 148 |
| IF2 | 3.8986 | .66741 | 148 |
| IF4 | 4.1149 | .63378 | 148 |
| IF5 | 4.0270 | .63830 | 148 |
| IF1 | 4.1892 | .62107 | 148 |

Item-Total Statistics

| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
|-----|-------------------------------|--------------------------------------|--|--|
| IF3 | 16.2297 | 3.974 | .692 | .783 |
| IF2 | 16.3851 | 3.994 | .570 | .817 |
| IF4 | 16.1689 | 3.720 | .752 | .764 |
| IF5 | 16.2568 | 4.029 | .595 | .809 |
| IF1 | 16.0946 | 4.154 | .561 | .818 |

Scale Statistics

| Mean | Variance | Std. Deviation | N of Items |
|---------|----------|----------------|------------|
| 20.2838 | 5.960 | 2.44126 | 5 |

RELIABILITY

/VARIABLES=IFF10 IFF12

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA

/STATISTICS=DESCRIPTIVE SCALE

/SUMMARY=TOTAL.

Reliability

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Scale: ALL VARIABLES

Case Processing Summary

| | | N | % |
|-------|-----------------------|-----|-------|
| Cases | Valid | 148 | 100.0 |
| | Excluded ^a | 0 | .0 |
| | Total | 148 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

| Cronbach's Alpha | N of Items |
|---------------------|------------|
| .635 | 2 |

Item Statistics

| | Mean | Std. Deviation | Z |
|-------|--------|----------------|-----|
| IFF10 | 2.2500 | 1.12410 | 148 |
| IFF12 | 1.8919 | .93412 | 148 |

Item-Total Statistics

| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
|-------|-------------------------------|--------------------------------------|--|--|
| IFF10 | 1.8919 | .873 | .473 | |
| IFF12 | 2.2500 | 1.264 | .473 | |

Scale Statistics

| Mean | Variance | Std. Deviation | N of Items |
|--------|----------|----------------|------------|
| 4.1419 | 3.129 | 1.76901 | 2 |

GET

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DATASET NAME DataSet1 WINDOW=FRONT.

FACTOR

/VARIABLES OF1 OF2 OF3 OF4 OF5 OF6 OF7 OF8 OF9

/MISSING LISTWISE

/ANALYSIS OF1 OF2 OF3 OF4 OF5 OF6 OF7 OF8 OF9

/PRINT INITIAL CORRELATION SIG DET KMO REPR AIC EXTRACTION ROTATION FSCOR

/FORMAT SORT BLANK(.45)

/CRITERIA MINEIGEN(1) ITERATE(25)

/EXTRACTION PAF

/CRITERIA ITERATE (25)

/ROTATION VARIMAX

/METHOD=CORRELATION.

Factor Analysis

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Correlation Matrix a

| | _ | OF1. | OF2 | OF3 | OF4 | OF5 | OF6 |
|-----------------|------|-------|-------|-------|-------|-------|-------|
| Correlation | OF1. | 1.000 | .450 | .467 | .434 | .362 | .233 |
| | OF2 | .450 | 1.000 | .794 | .728 | .452 | .262 |
| | OF3 | .467 | .794 | 1.000 | .838 | .594 | .202 |
| | OF4 | .434 | .728 | .838 | 1.000 | .628 | .243 |
| | OF5 | .362 | .452 | .594 | .628 | 1.000 | .333 |
| | OF6 | .233 | .262 | .202 | .243 | .333 | 1.000 |
| | OF7 | .227 | .196 | .154 | .221 | .363 | .646 |
| | OF8 | .199 | .268 | .226 | .273 | .349 | .371 |
| | OF9 | .240 | .233 | .262 | .337 | .407 | .393 |
| Sig. (1-tailed) | OF1. | | .000 | .000 | .000 | .000 | .002 |
| ļ | OF2 | .000 | | .000 | .000 | .000 | .001 |
| | OF3 | .000 | .000 | | .000 | .000 | .007 |
| | OF4 | .000 | .000 | .000 | | .000 | .001 |
| | OF5 | .000 | .000 | .000 | .000 | | .000 |
| ł | OF6 | .002 | .001 | .007 | .001 | .000 | |
| | OF7 | .003 | .008 | .031 | .003 | .000 | .000 |
| | OF8 | .008 | .000 | .003 | .000 | .000 | .000 |
| | OF9 | .002 | .002 | .001 | .000 | .000 | .000 |

Correlation Matrix^a

| | | OF7 | OF8 | OF9 |
|-----------------|------|-------|-------|-------|
| Correlation | OF1. | .227 | .199 | .240 |
| | OF2 | .196 | .268 | .233 |
| | OF3 | .154 | .226 | .262 |
| | OF4 | .221 | .273 | .337 |
| ļ | OF5 | .363 | .349 | .407 |
| | OF6 | .646 | .371 | .393 |
| | OF7 | 1.000 | .629 | .654 |
| | OF8 | .629 | 1.000 | .705 |
| | OF9 | .654 | .705 | 1.000 |
| Sig. (1-tailed) | OF1. | .003 | .008 | .002 |
| | OF2 | .008 | .000 | .002 |
| | OF3 | .031 | .003 | .001 |
| | OF4 | .003 | .000 | .000 |
| | OF5 | .000 | .000 | .000 |
| | OF6 | .000 | .000 | .000 |
| | OF7 | | .000 | .000 |
| | OF8 | .000 | | .000 |
| | OF9 | .000 | .000 | |

a. Determinant = .005

KMO and Bartlett's Test

| Kaiser-Meyer-Olkin Me | Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | | |
|-----------------------|--|---------|--|
| Bartlett's Test of | Approx. Chi-Square | 760.268 | |
| Sphericity | df | 36 | |
| | Sig. | .000 | |

Anti-image Matrices

| | | OF1. | OF2 | OF3 | OF4 | OF5 | OF6 |
|------------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Anti-image Covariance | OF1. | .737 | 062 | 047 | 005 | 038 | 026 |
| | OF2 | 062 | .327 | 127 | 059 | .063 | 052 |
| | OF3 | 047 | - 127 | .208 | 117 | 072 | .015 |
| | OF4 | 005 | 059 | 117 | .255 | 093 | - 001 |
| | OF5 | 038 | .063 | 072 | 093 | .511 | - 049 |
| | OF6 | 026 | 052 | .015 | 001 | - 049 | .551 |
| | OF7 | 029 | 001 | .024 | .007 | 039 | 235 |
| | OF8 | .020 | 057 | .010 | .014 | 022 | .034 |
| | OF9 | 024 | .043 | 005 | 042 | 033 | .022 |
| Anti-image Correlation | OF1. | .957 ^a | ~.126 | 121 | 012 | 062 | 042 |
| | OF2 | 126 | .829 ^a | 488 | ~.206 | .153 | 123 |
| | OF3 | 121 | 488 | .785 ^a | 509 | 221 | .044 |
| | OF4 | 012 | 206 | 509 | .844 ^a | 259 | 002 |
| | OF5 | 062 | .153 | 221 | 259 | .906 ^a | 093 |
| | OF6 | 042 | 123 | .044 | 002 | 093 | .766 ^a |
| | OF7 | 057 | 003 | .088 | .022 | 093 | 533 |
| | OF8 | .036 | 151 | .033 | .041 | 047 | .069 |
| | OF9 | 043 | .118 | 018 | 132 | 072 | .048 |

Anti-image Matrices

| | | OF7 | OF8 | OF9 |
|------------------------|------|-------------------|-------|-------------------|
| Anti-image Covariance | OF1. | 029 | .020 | 024 |
| | OF2 | 001 | 057 | .043 |
| | OF3 | .024 | .010 | 005 |
| | OF4 | .007 | .014 | 042 |
| | OF5 | 039 | 022 | 033 |
| | OF6 | 235 | .034 | .022 |
| | OF7 | .352 | 111 | 122 |
| | OF8 | -,111 | .439 | 201 |
| | OF9 | 122 | 201 | .401 |
| Anti-image Correlation | OF1. | 057 | .036 | 043 |
| | OF2 | 003 | 151 | .118 |
| | OF3 | .088 | .033 | 018 |
| | OF4 | .022 | .041 | 132 |
| | OF5 | 093 | 047 | 072 |
| | OF6 | 533 | .069 | .048 |
| | OF7 | .758 ^a | 283 | -, 325 |
| | OF8 | 283 | .802ª | 479 |
| | OF9 | 325 | 479 | .804 ^a |

a. Measures of Sampling Adequacy(MSA)

a. Measures of Sampling Adequacy(MSA)

| | Initial | Extraction |
|------|---------|------------|
| OF1. | .263 | .273 |
| OF2 | .673 | .660 |
| OF3 | .792 | .917 |
| OF4 | .745 | .803 |
| OF5 | .489 | .474 |
| OF6 | .449 | .362 |
| OF7 | .648 | .812 |
| OF8 | .561 | .560 |
| OF9 | .599 | .620 |

Extraction Method: Principal Axis Factoring.

Total Variance Explained

| | | Initial Eigenvalu | ies | Extraction | on Sums of Squar | ed Loadings |
|--------|-------|-------------------|--------------|------------|------------------|--------------|
| Factor | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 4.235 | 47.057 | 47.057 | 3.886 | 43.181 | 43.181 |
| 2 | 1.895 | 21.060 | 68.117 | 1.595 | 17.724 | 60.905 |
| 3 | .761 | 8.455 | 76.572 | | | |
| 4 | .667 | 7.413 | 83.985 | | | |
| 5 | .537 | 5.972 | 89.957 | | | |
| 6 | .305 | 3.385 | 93.341 | | | |
| 7 | .247 | 2.740 | 96.081 | | | |
| 8 | .209 | 2.323 | 98.404 | | | |
| 9 | .144 | 1.596 | 100.000 | | | |

Total Variance Explained

| | Rotation Sums of Squared Loadings | | | | | |
|--------|-----------------------------------|---------------|--------------|--|--|--|
| Factor | Total | % of Variance | Cumulative % | | | |
| 1 | 3.019 | 33.549 | 33.549 | | | |
| 2 | 2.462 | 27.355 | 60.905 | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

| | Factor | | | | |
|------|--------|------|--|--|--|
| | 1 | 2 | | | |
| OF4 | .801 | | | | |
| OF3 | .799 | 527 | | | |
| OF2 | .716 | | | | |
| OF5 | .684 | | | | |
| OF9 | .631 | .471 | | | |
| OF8 | .586 | .465 | | | |
| OF1. | .503 | | | | |
| OF6 | .498 | | | | |
| OF7 | .619 | .655 | | | |

Extraction Method: Principal Axis Factoring.

a. 2 factors extracted. 10 iterations required.

Reproduced Correlations

| | | OF1. | OF2 | OF3 | OF4 | OF5 |
|------------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Reproduced Correlation | OF1. | .273 ^a | .415 | .477 | .460 | .355 |
| | OF2 | .415 | .660 ^a | .775 | .728 | .520 |
| | OF3 | .477 | .775 | .917 ^a | .852 | .588 |
| | OF4 | .460 | .728 | .852 | .803 ^a | .579 |
| i | OF5 | .355 | .520 | .588 | .579 | .474 ^a |
| | OF6 | .202 | .226 | .220 | .262 | .314 |
| | OF7 | .218 | .192 | .150 | .232 | .373 |
| | OF8 | .228 | .241 | .223 | .282 | .365 |
| | OF9 | .250 | .270 | .256 | .315 | .395 |
| Residual | OF1. | | .035 | 009 | 026 | .007 |
| | OF2 | .035 | | .020 | -7.244E-5 | 068 |
| | OF3 | 009 | .020 | | 015 | .006 |
| | OF4 | 026 | -7.244E-5 | 015 | , | .049 |
| | OF5 | .007 | 068 | .006 | .049 | |
| | OF6 | .031 | .035 | 018 | 020 | .019 |
| 1 | OF7 | .009 | .004 | .003 | 011 | 010 |
| | OF8 | 029 | .027 | .003 | 009 | 016 |
| | OF9 | 009 | 037 | .006 | .022 | .012 |

| | | OF6 | OF7 | OF8 | OF9 |
|------------------------|------|-------------------|-------------------|-------------------|-------------------|
| Reproduced Correlation | OF1. | .202 | .218 | .228 | 250 |
| | OF2 | .226 | .192 | .241 | .270 |
| | OF3 | .220 | .150 | .223 | .256 |
| | OF4 | .262 | .232 | .282 | .315 |
| | OF5 | .314 | .373 | .365 | .395 |
| | OF6 | .362 ^a | .529 | .449 | .473 |
| | OF7 | .529 | .812 ^a | .668 | .699 |
| | OF8 | .449 | .668 | .560 ^a | .589 |
| | OF9 | .473 | .699 | .589 | .620 ^a |
| Residual ^b | OF1. | .031 | .009 | 029 | 009 |
| | OF2 | .035 | .004 | .027 | 037 |
| | OF3 | 018 | .003 | .003 | .006 |
| | OF4 | 020 | 011 | 009 | .022 |
| | OF5 | .019 | 010 | 016 | .012 |
| | OF6 | | .116 | 078 | 080 |
| | OF7 | .116 | | 039 | 045 |
| | OF8 | 078 | 039 | | .116 |
| | OF9 | 080 | 045 | .116 | |

Extraction Method: Principal Axis Factoring.

a. Reproduced communalities b. Residuals are computed between observed and reproduced correlations. There are 5 (13.0%) nonredundant residuals with absolute values greater than 0.05.

Rotated Factor Matrix^a

| | Factor | | | | |
|------|--------|------|--|--|--|
| | 1 | 2 | | | |
| OF3 | .954 | | | | |
| OF4 | .879 | | | | |
| OF2 | .801 | | | | |
| OF5 | .587 | | | | |
| OF1. | .484 | | | | |
| OF7 | | .897 | | | |
| OF9 | | .759 | | | |
| OF8 | | .727 | | | |
| OF6 | | .572 | | | |

Extraction Method: Principal Axis Factoring.
Rotation Method:
Varimax with Kaiser Normalization.

a. Rotation converged in3 iterations.

Factor Transformation Matrix

| Factor | 1 | 2 |
|--------|------|------|
| 1 | .788 | .615 |
| 2 | 615 | .788 |

Extraction Method: Principal Axis Factoring. Rotation Method: Varimax with Kaiser Normalization.

Factor Score Coefficient Matrix

| | Factor | | | | |
|------|--------|------|--|--|--|
| | 1 | 2 | | | |
| OF1. | .044 | .014 | | | |
| OF2 | .077 | .021 | | | |
| OF3 | .650 | 187 | | | |
| OF4 | .275 | 004 | | | |
| OF5 | .020 | .070 | | | |
| OF6 | .030 | .026 | | | |
| OF7 | 100 | .610 | | | |
| OF8 | 007 | .175 | | | |
| OF9 | 033 | .241 | | | |

Extraction Method: Principal Axis Factoring. Rotation Method: Varimax with Kaiser Normalization.

Factor Score Covariance Matrix

| Factor | 1 | 2 |
|--------|------|------|
| 1 | .946 | .021 |
| 2 | .021 | .888 |

Extraction Method: Principal Axis Factoring. Rotation Method: Varimax with Kaiser Normalization. FACTOR

/VARIABLES IT1 IT2 IT3 IT4 IT5

/MISSING LISTWISE

/ANALYSIS IT1 IT2 IT3 IT4 IT5

/PRINT INITIAL CORRELATION SIG DET R

/PRINT INITIAL CORRELATION SIG DET KMO REPR AIC EXTRACTION ROTATION FSCOR

Ε

/FORMAT SORT BLANK(0.45)

/CRITERIA FACTORS(1) ITERATE(25)

/EXTRACTION PAF

/CRITERIA ITERATE(25)

/ROTATION VARIMAX

/METHOD=CORRELATION.

Factor Analysis

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Correlation Matrix^a

| | | ĪT1 | IT2 | IT3 | IT4 | IT5 |
|-----------------|-----|-------|-------|-------|-------|-------|
| Correlation | IT1 | 1.000 | .659 | .544 | .482 | .585 |
| } | IT2 | .659 | 1.000 | .795 | .594 | .646 |
| | IT3 | .544 | .795 | 1.000 | .552 | .648 |
| Ì | IT4 | .482 | .594 | .552 | 1.000 | .818 |
| | IT5 | .585 | .646 | .648 | .818 | 1.000 |
| Sig. (1-tailed) | IT1 | | .000 | .000 | .000 | .000 |
| | IT2 | .000 | | .000 | .000 | .000 |
| | IT3 | .000 | .000 | | .000 | .000 |
|] | IT4 | .000 | .000 | .000 | | .000 |
| | iT5 | .000 | .000 | .000 | .000 | |

a. Determinant = .033

KMO and Bartlett's Test

| Kaiser-Meyer-Olkin Me | .778 | |
|-------------------------------|--------------------|---------|
| Bartlett's Test of Sphericity | Approx. Chi-Square | 493.637 |
| Орпспону | df | 10 |
| | Sig | .000 |

Anti-image Matrices

| | | IT1 | IT2 | IT3 | IT4 | IT5 |
|------------------------|-----|-------------------|-------------------|-------------------|-------------------|-------------------|
| Anti-image Covariance | IT1 | .519 | 148 | .018 | .028 | 090 |
| | IT2 | 148 | .281 | 188 | 050 | .003 |
| | IT3 | .018 | 188 | .335 | .021 | 074 |
| | IT4 | .028 | 050 | .021 | .321 | - 199 |
| | IT5 | 090 | .003 | 074 | 199 | .256 |
| Anti-image Correlation | IT1 | .857 ^a | 387 | .043 | .069 | 247 |
| | IT2 | 387 | .768 ^a | 613 | 167 | .011 |
| | IT3 | .043 | 613 | .788 ^a | .063 | 252 |
| | IT4 | .069 | 167 | .063 | .751 ^a | 693 |
| | IT5 | - 247 | .011 | 252 | 693 | .754 ^a |

a. Measures of Sampling Adequacy(MSA)

Communalities

| | Initial | Extraction |
|-----|---------|------------|
| IT1 | .481 | .480 |
| IT2 | .719 | .738 |
| IT3 | .665 | .643 |
| IT4 | .679 | .586 |
| IT5 | .744 | .741 |

Extraction Method: Principal Axis Factoring.

Total Variance Explained

| | Initial Eigenvalues | | | Extraction | on Sums of Squar | ed Loadings |
|--------|---------------------|---------------|--------------|------------|------------------|--------------|
| Factor | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 3.538 | 70.753 | 70.753 | 3.188 | 63.753 | 63.753 |
| 2 | .631 | 12.627 | 83.380 | | ļ | |
| 3 | .474 | 9.475 | 92.855 | | | |
| 4 | .208 | 4.162 | 97.018 | | | |
| 5 | .149 | 2.982 | 100.000 | | | |

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

| | Factor |
|-----|--------|
| | 1 |
| IT5 | .861 |
| IT2 | .859 |
| IT3 | .802 |
| IT4 | .765 |
| IT1 | .693 |

Extraction Method: Principal Axis Factoring.

a. 1 factors extracted. 6 iterations required.

Reproduced Correlations

| | | IT1 | IT2 | IT3 | IT4 | IT5 |
|------------------------|-----|-------------------|-------------------|-------------------|-------------------|-------------------|
| Reproduced Correlation | IT1 | .480 ^a | .595 | .555 | .530 | .596 |
| | IT2 | .595 | .738 ^a | .689 | .658 | .739 |
| | IT3 | .555 | .689 | .643 ^a | .614 | .690 |
| | IT4 | .530 | .658 | .614 | .586 ^a | .659 |
| | IT5 | .596 | .739 | .690 | .659 | .741 ^a |
| Residual ^b | IT1 | | .064 | 011 | 048 | 011 |
| | IT2 | .064 | | .106 | 064 | 093 |
| | IT3 | 011 | .106 | | ~.062 | 042 |
| | IT4 | 048 | 064 | 062 | | .159 |
| _ | IT5 | 011 | 093 | 042 | .159 | |

Extraction Method: Principal Axis Factoring.

a. Reproduced communalities b. Residuals are computed between observed and reproduced correlations. There are 6 (60.0%) nonredundant residuals with absolute values greater than 0.05.

Rotated Factor Matrix

a. Only one factor was extracted. The solution cannot be rotated.

Factor Score Coefficient Matrix

| | Factor |
|-----|--------|
| | 1 |
| IT1 | .092 |
| IT2 | .364 |
| IT3 | .154 |
| IT4 | .102 |
| IT5 | .388 |

Extraction
Method:
Principal Axis
Factoring.
Rotation
Method:
Varimax with
Kaiser
Normalization.

Factor Score Covariance Matrix

| Factor | 1 |
|--------|------|
| 1 | .913 |

Extraction
Method:
Principal Axis
Factoring.
Rotation
Method:
Varimax with
Kaiser
Normalization.

CORRELATIONS

 $\label{thm:continuous} $$ \VARIABLES=MeanIF MeanSense of S MeanAttitudes MeanOF MeanIncentives MeanMS upport MeanTrust MeanKSB$

/PRINT=TWOTAIL NOSIG

/STATISTICS DESCRIPTIVES

/MISSING=PAIRWISE.

Correlations

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Descriptive Statistics

| | Mean | Std. Deviation | N |
|----------------|--------|----------------|-----|
| MeanIF | 4.0313 | .48043 | 148 |
| MeanSenseofs | 4.0568 | .48825 | 148 |
| MeanAttitudes | 4.0101 | .57117 | 148 |
| MeanOF | 3.4767 | .57586 | 148 |
| MeanIncentives | 3.1716 | .74249 | 148 |
| MeanMSupport | 3.8581 | .61110 | 148 |
| MeanTrust | 3.2054 | .77721 | 148 |
| MeanKSB | 4.1571 | .52187 | 148 |

Correlations

| | | MeanlF | MeanSenseof s | MeanAttitudes | MeanOF |
|----------------|---------------------|--------|------------------|---------------|--------|
| MeanIF | Pearson Correlation | 1 | .858 | .931 | .421 |
| | Sig. (2-tailed) | | .000 | .000 | .000 |
| | N | 148 | 148 | 148 | 148 |
| MeanSenseofs | Pearson Correlation | .858 | 1 | .611 | .342 |
| | Sig. (2-tailed) | .000 | | .000 | .000 |
| | N | 148 | 148 | 148 | 148 |
| MeanAttitudes | Pearson Correlation | .931 | .611 | 1 | .405 |
| | Sig. (2-tailed) | .000 | .000 | | .000 |
| | N | 148 | 148 | 148 | 148 |
| MeanOF | Pearson Correlation | .421 | .342 | .405 | 1 |
| | Sig. (2-tailed) | .000 | .000 | .000 | |
| | N | 148 | 148 | 148 | 148 |
| MeanIncentives | Pearson Correlation | .284 | .207 | .291 | .901 |
| | Sig. (2-tailed) | .000 | .012 | .000 | .000 |
| | N | 148 | 148 | 148 | 148 |
| MeanMSupport | Pearson Correlation | .460 | .410 | .417 | .752 |
| | Sig. (2-tailed) | .000 | .000 | .000 | .000 |
| | N | 148 | 148 | 148 | 148 |
| MeanTrust | Pearson Correlation | .361 | .249 | .379 | .453 |
| | Sig. (2-tailed) | .000 | .002 | .000 | .000 |
| | N | 148 | 148 | 148 | 148 |
| MeanKSB | Pearson Correlation | .535 | .445 | .507 | .294 |
| | Sig. (2-tailed) | .000 | .000 | .000 | .000 |
| | N | 148 | 148 | 148 | 148 |

Correlations

| | | MeanIncentive | Mean | | |
|----------------|---------------------|---------------|----------|-----------|---------|
| | | S | MSupport | MeanTrust | MeanKSB |
| MeanIF | Pearson Correlation | .284 | .460 | .361 | .535 |
| | Sig. (2-tailed) | .000 | .000 | .000 | .000 |
| | N | 148 | 148 | 148 | 148 |
| MeanSenseofs | Pearson Correlation | .207 | .410 | .249 | .445 |
| | Sig. (2-tailed) | .012 | .000 | .002 | .000 |
| | N | 148 | 148 | 148 | 148 |
| MeanAttitudes | Pearson Correlation | .291 | .417 | .379 | .507 |
| | Sig. (2-tailed) | .000 | .000 | .000 | .000 |
| | N | 148 | 148 | 148 | 148 |
| MeanOF | Pearson Correlation | .901 | .752 | .453 | .294 |
| | Sig. (2-tailed) | .000 | .000 | .000 | .000 |
| | N | 148 | 148 | 148 | 148 |
| MeanIncentives | Pearson Correlation | 1 | .391 | .427 | .257 |
| | Sig. (2-tailed) | | .000 | .000 | .002 |
| | N | 148 | 148 | 148 | 148 |
| MeanMSupport | Pearson Correlation | .391 | 1 | .311 | .233 |
| | Sig. (2-tailed) | .000 | | .000 | .004 |
| | N | 148 | 148 | 148 | 148 |
| MeanTrust | Pearson Correlation | .427 | .311 | 1 | .239 |
| | Sig. (2-tailed) | .000 | .000 | | .003 |
| | N | 148 | 148 | 148 | 148 |
| MeanKSB | Pearson Correlation | .257 | .233 | .239 | 1 |
| | Sig. (2-tailed) | .002 | .004 | .003 | |
| | N | 148 | 148 | 148 | 148 |

^{**.} Correlation is significant at the 0.01 level (2-tailed).

*. Correlation is significant at the 0.05 level (2-tailed).

REGRESSION

/DESCRIPTIVES MEAN STDDEV CORR SIG N

/MISSING PAIRWISE

/STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL CHANGE ZPP

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT MeanKSB

/METHOD=ENTER MeanSenseofs MeanAttitudes MeanIncentives MeanMSupport

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/RESIDUALS DURBIN NORMPROB(ZRESID)

/CASEWISE PLOT(ZRESID) OUTLIERS(3)

/SAVE MAHAL COOK.

Regression

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Descriptive Statistics

| | Mean | Std Deviation | N |
|----------------|--------|---------------|-----|
| MeanKSB | 4.1571 | .52187 | 148 |
| MeanSenseofs | 4.0568 | .48825 | 148 |
| MeanAttitudes | 4.0101 | .57117 | 148 |
| MeanIncentives | 3.1716 | .74249 | 148 |
| MeanMSupport | 3.8581 | .61110 | 148 |

Correlations

| | | MeanKSB | MeanSenseof s | MeanAttitudes |
|---------------------|----------------|---------|------------------|---------------|
| Pearson Correlation | MeanKSB | 1.000 | .445 | .507 |
| | MeanSenseofs | .445 | 1.000 | .611 |
| | MeanAttitudes | .507 | .611 | 1.000 |
| | Meanincentives | .257 | .207 | .291 |
| No | MeanMSupport | .233 | .410 | .417 |
| Sig. (1-tailed) | MeanKSB | | .000 | .000 |
| | MeanSenseofs | .000 | | .000 |
| | MeanAttitudes | .000 | .000 | |
| | MeanIncentives | .001 | .006 | .000 |
| | MeanMSupport | .002 | .000 | .000 |
| N | MeanKSB | 148 | 148 | 148 |
| | MeanSenseofs | 148 | 148 | 148 |
| i | MeanAttitudes | 148 | 148 | 148 |
| | MeanIncentives | 148 | 148 | 148 |
| | MeanMSupport | 148 | 148 | 148 |

Correlations

| | | Mean Incentives | Mean MSupport |
|---------------------|----------------|--------------------|------------------|
| Pearson Correlation | MeanKSB | .257 | .233 |
| | MeanSenseofs | .207 | .410 |
| | MeanAttitudes | .291 | .417 |
| | MeanIncentives | 1.000 | .391 |
| | MeanMSupport | .391 | 1.000 |
| Sig. (1-tailed) | MeanKSB | .001 | .002 |
| | MeanSenseofs | .006 | .000 |
| | MeanAttitudes | .000 | .000 |
| | MeanIncentives | | .000 |
| | MeanMSupport | .000 | |
| N | MeanKSB | 148 | 148 |
| | MeanSenseofs | 148 | 148 |
| | MeanAttitudes | 148 | 148 |
| } | MeanIncentives | 148 | 148 |
| | MeanMSupport | 148 | 148 |

Variables Entered/Removed^b

| Model | Variables Entered | Variables Removed | Method |
|-------|--|----------------------|--------|
| 1 | Mean MSupport, Mean Incentives, Mean Senseofs, MeanAttitudes | | Enter |

a. All requested variables entered.b. Dependent Variable: MeanKSB

Model Summary b

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|----------------------|----------------------------|
| 1 | .548 ^a | .301 | .281 | 44248 |

Model Summary b

| Model | R Square Change | F Change | df1 | df2 | Sig. F Change | Durbin- Watson |
|-------|--------------------|----------|-----|-----|---------------|-------------------|
| 1 | .301 | 15.371 | 4 | 143 | .000 | 1.971 |

a. Predictors: (Constant), MeanMSupport, MeanIncentives, MeanSenseofs, MeanAttitudes b. Dependent Variable: MeanKSB

ANOVA

| Mode | | Sum of Squares | df | Mean Square | F | Sig. |
|------|------------|-------------------|-----|-------------|--------|-------------------|
| 1 | Regression | 12.038 | 4 | 3,009 | 15.371 | .000 ^a |
| | Residual | 27.998 | 143 | .196 | | |
| | Total | 40.035 | 147 | | | |

a. Predictors: (Constant), MeanMSupport, MeanIncentives, MeanSenseofs, MeanAttitudes
b. Dependent Variable: MeanKSB

Coefficients

| | | Unstandardized Coefficients | | |
|-------|----------------|-----------------------------|------------|--|
| Model | | В | Std. Error | |
| 1 | (Constant) | 1.780 | .337 | |
|] | MeanSenseofs | .240 | .097 | |
| | MeanAttitudes | .326 | .084 | |
| | MeanIncentives | .091 | .054 | |
| | MeanMSupport | 050 | .071 | |

Coefficients^a

| | | Standardized Coefficients | | | 95.0% Confidence Interval for E | |
|-------|----------------|------------------------------|-------|------|---------------------------------|-------------|
| Model | I | Beta | t | Sig. | Lower Bound | Upper Bound |
| 1 | (Constant) | | 5.286 | .000 | 1.115 | 2.446 |
| ľ | MeanSenseofs | .225 | 2.482 | .014 | .049 | .431 |
| | MeanAttitudes | .357 | 3.886 | .000 | .160 | .492 |
| | MeanIncentives | .130 | 1.691 | .093 | 015 | .198 |
| | MeanMSupport | 059 | 711 | .478 | 190 | .090 |

Coefficients^a

| | Correlations | | | Collinearity Statistics | | |
|-------|----------------|------------|---------|-------------------------|-----------|-------|
| Model | | Zero-order | Partial | Part | Tolerance | VIF |
| 1 | (Constant) | | | | | |
| | MeanSenseofs | .445 | .203 | .174 | .597 | 1.675 |
| 1 | MeanAttitudes | .507 | .309 | .272 | .581 | 1.722 |
| | MeanIncentives | .257 | .140 | .118 | .826 | 1.210 |
| | MeanMSupport | .233 | 059 | 050 | .712 | 1.405 |

a. Dependent Variable: MeanKSB

Collinearity Diagnostics^a

| Model | Dimension | Eigenvalue | Condition Index |
|-------|-----------|------------|--------------------|
| 1 | 1 | 4.934 | 1.000 |
| | 2 | .036 | 11.659 |
| | 3 | .014 | 18.863 |
| | 4 | .010 | 22.341 |
| | 5 | .006 | 29.068 |

Collinearity Diagnostics^a

| | | | Variance Proportions | | | | | | |
|-------|-----------|------------|----------------------|---------------|--------------------|------------------|--|--|--|
| Model | Dimension | (Constant) | MeanSenseof s | MeanAttitudes | Mean Incentives | Mean MSupport | | | |
| 1 | 1 | .00 | .00 | .00 | .00 | .00 | | | |
| | 2 | .02 | .02 | .02 | .92 | .00 | | | |
|] | 3 | .03 | .03 | .09 | .07 | .98 | | | |
| ĺ | 4 | .67 | .00 | .49 | .00 | .02 | | | |
| | 5 | .28 | .95 | .40 | .02 | .00 | | | |

a. Dependent Variable: MeanKSB

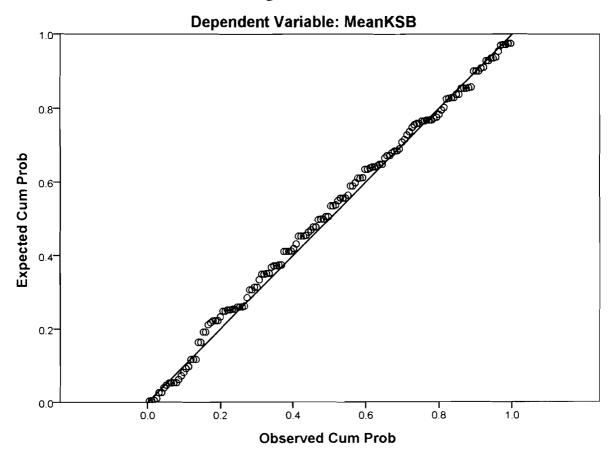
Residuals Statistics^a

| | Minimum | Maximum | Mean | Std. Deviation | N |
|--------------------------------------|----------------|---------|--------|----------------|-----|
| Predicted Value | 3.5879 | 4.8119 | 4.1571 | .28616 | 148 |
| Std. Predicted Value | -1.989 | 2.288 | .000 | 1.000 | 148 |
| Standard Error of Predicted Value | .037 | .186 | .078 | .024 | 148 |
| Adjusted Predicted Value | 3.5843 | 4.7964 | 4.1565 | .28718 | 148 |
| Residual | -1.19980 | .86743 | .00000 | .43642 | 148 |
| Std. Residual | <i>-</i> 2.712 | 1.960 | .000 | .986 | 148 |
| Stud. Residual | -2.752 | 2.014 | .001 | 1.002 | 148 |
| Deleted Residual | -1.23584 | .91566 | .00060 | .45066 | 148 |
| Stud. Deleted Residual | -2.818 | 2.036 | 001 | 1.009 | 148 |
| Mahal. Distance | .055 | 24.960 | 3.973 | 3.122 | 148 |
| Cook's Distance | .000 | .045 | .007 | .009 | 148 |
| Centered Leverage Value | .000 | .170 | .027 | .021 | 148 |

a. Dependent Variable: MeanKSB

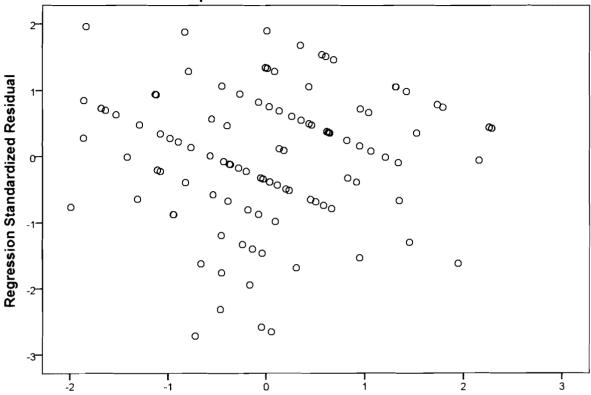
Charts

Normal P-P Plot of Regression Standardized Residual



Scatterplot





Regression Standardized Predicted Value

```
GET
  FILE='C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test Ain.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
COMPUTE MeanSensexTrust=MeanSenseofs * MeanTrust.
EXECUTE.
REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING PAIRWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL CHANGE ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT MeanKSB
  /METHOD=ENTER MeanSenseofs
  /METHOD=ENTER MeanSenseofs MeanTrust
  /METHOD=ENTER MeanSensexTrust
  /SCATTERPLOT=(*ZRESID ,*ZPRED)
  /RESIDUALS DURBIN NORMPROB(ZRESID)
  /CASEWISE PLOT(ZRESID) OUTLIERS(3)
```

Regression

/SAVE MAHAL COOK.

[DataSet1] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test Ain.sav

Descriptive Statistics

| | Mean | Std. Deviation | N |
|-----------------|---------|----------------|-----|
| MeanKSB | 4.1571 | .52187 | 148 |
| MeanSenseofs | 4.0568 | .48825 | 148 |
| MeanTrust | 3.2054 | .77721 | 148 |
| MeanSensexTrust | 13.0973 | 3.97571 | 148 |

Correlations

| | | MeanKSB | MeanSenseof s | MeanTrust | MeanSensex Trust |
|---------------------|-----------------|---------|------------------|-----------|---------------------|
| Pearson Correlation | MeanKSB | 1.000 | .445 | .239 | .380 |
| | MeanSenseofs | .445 | 1.000 | .249 | .599 |
| | MeanTrust | .239 | .249 | 1.000 | .919 |
| | MeanSensexTrust | .380 | .599 | .919 | 1.000 |
| Sig. (1-tailed) | MeanKSB | | .000 | .002 | .000 |
| | MeanSenseofs | .000 | | .001 | .000 |
|] | MeanTrust | .002 | .001 | | .000 |
| | MeanSensexTrust | .000 | .000 | .000 | |
| N | MeanKSB | 148 | 148 | 148 | 148 |
| | MeanSenseofs | 148 | 148 | 148 | 148 |
| | MeanTrust | 148 | 148 | 148 | 148 |
| | MeanSensexTrust | 148 | 148 | 148 | 148 |

Variables Entered/Removed^b

| Model | Variables Entered | Variables Removed | Method |
|-------|------------------------|----------------------|--------|
| 1 | MeanSenseof s | | Enter |
| 2 | MeanTrust ^a | - | Enter |
| 3 | MeanSensex Trust | | Enter |

- a. All requested variables entered.b. Dependent Variable: MeanKSB

Model Summary^d

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|----------------------|----------------------------|
| 1 | 445 ^a | 198 | .193 | .46886 |
| 2 | .465 ^b | .216 | .205 | .46527 |
| 3 | .471 ^c | .222 | .206 | .46516 |

Model Summary^d

| | Change Statistics | | | | | |
|-------|--------------------|----------|-----|-----|---------------|-------------------|
| Model | R Square Change | F Change | df1 | df2 | Sig. F Change | Durbin- Watson |
| 1 | .198 | 36.118 | 1 | 146 | .000 | |
| 2 | .018 | 3.262 | 1 | 145 | .073 | |
| 3 | .006 | 1.070 | 1 | 144 | .303 | 1.868 |

- a. Predictors: (Constant), MeanSenseofs
 b. Predictors: (Constant), MeanSenseofs, MeanTrust
 c. Predictors: (Constant), MeanSenseofs, MeanTrust, MeanSensexTrust
 d. Dependent Variable: MeanKSB

ANOVA

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|-------------------|-----|-------------|--------|-------|
| 1 | Regression | 7.940 | 1 | 7.940 | 36.118 | .000ª |
| | Residual | 32.095 | 146 | .220 | | |
| | Total | 40.035 | 147 | | | |
| 2 | Regression | 8.646 | 2 | 4.323 | 19.970 | .000 |
| | Residual | 31.389 | 145 | .216 | | |
| | Total | 40.035 | 147 | | | |
| 3 | Regression | 8.878 | 3 | 2.959 | 13.676 | .000° |
| | Residual | 31.158 | 144 | .216 | | |
| | Total | 40.035 | 147 | | | |

a. Predictors: (Constant), MeanSenseofs b. Predictors: (Constant), MeanSenseofs, MeanTrust c. Predictors: (Constant), MeanSenseofs, MeanTrust, MeanSensexTrust d. Dependent Variable: MeanKSB

Coefficients^a

| | | Unstandardized Coefficients | | |
|-------|-----------------|-----------------------------|------------|--|
| Model | | В | Std. Error | |
| 1 | (Constant) | 2.226 | .324 | |
| | MeanSenseofs | .476 | .079 | |
| 2 | (Constant) | 2.079 | .331 | |
| | MeanSenseofs | .440 | .081 | |
| | MeanTrust | .092 | .051 | |
| 3 | (Constant) | 3.475 | 1.389 | |
| | MeanSenseofs | . 105 | .334 | |
| | MeanTrust | 345 | .425 | |
| | MeanSensexTrust | .104 | .101 | |

Coefficients

| Model | | Standardized Coefficients | t | Sig. | 95.0% Confidence Interval for B | |
|-------|-----------------|------------------------------|-------|------|---------------------------------|-------------|
| | | Beta | | | Lower Bound | Upper Bound |
| 1 | (Constant) | | 6.879 | .000 | 1.587 | 2.866 |
| | MeanSenseofs | .445 | 6.010 | .000 | .319 | .633 |
| 2 | (Constant) | | 6.274 | .000 | 1.424 | 2.734 |
| l | MeanSenseofs | .411 | 5.417 | .000 | .279 | .600 |
| | MeanTrust | .137 | 1.806 | .073 | 009 | .193 |
| 3 | (Constant) | - | 2.501 | .014 | .728 | 6.221 |
| ŀ | MeanSenseofs | .098 | .314 | .754 | 555 | .764 |
| | MeanTrust | 513 | 811 | .419 | -1.185 | .496 |
| | MeanSensexTrust | .793 | 1.034 | .303 | 095 | .303 |

Coefficients^a

| | | Correlations | | Collinearity Statistics | | |
|-------|-----------------|--------------|---------|-------------------------|-----------|---------|
| Model | | Zero-order | Partial | Part | Tolerance | VIF |
| 1 | (Constant) | | | | | |
| | MeanSenseofs | .445 | .445 | .445 | 1.000 | 1.000 |
| 2 | (Constant) | _ | | | | |
| | MeanSenseofs | .445 | .410 | .398 | .938 | 1.066 |
| | MeanTrust | .239 | .148 | .133 | .938 | 1.066 |
| 3 | (Constant) | | | | | |
| | MeanSenseofs | .445 | .026 | .023 | .055 | 18.040 |
| | MeanTrust | .239 | 067 | 060 | .013 | 74.243 |
| | MeanSensexTrust | .380 | .086 | .076 | .009 | 108.683 |

a. Dependent Variable: MeanKSB

Excluded Variables^c

| Model | | Beta In | t | Sig. | Partial Correlation |
|-------|-----------------|-------------------|-------|------|------------------------|
| 1 | MeanTrust | .137 ^a | 1.806 | .073 | .148 |
| | MeanSensexTrust | .176 ^a | 1.920 | .057 | .157 |
| 2 | MeanSensexTrust | .793 ^b | 1.034 | .303 | .086 |

Excluded Variables^c

| | | Collinearity Statistics | | | | |
|-------|-----------------|-------------------------|---------|----------------------|--|--|
| Model | | Tolerance | VIF | Minimum Tolerance | | |
| 1 | MeanTrust | .938 | 1.066 | .938 | | |
| | MeanSensexTrust | .641 | 1.560 | .641 | | |
| 2 | MeanSensexTrust | .009 | 108.683 | .009 | | |

a. Predictors in the Model: (Constant), MeanSenseofs b. Predictors in the Model: (Constant), MeanSenseofs, MeanTrust c. Dependent Variable: MeanKSB

Collinearity Diagnostics^a

| Model | Dimension | Eigenvalue | Condition Index |
|-------|-----------|------------|--------------------|
| 1 | 1 | 1.993 | 1.000 |
| | 2 | .007 | 16.734 |
| 2 | 1 | 2.958 | 1.000 |
| | 2 | .035 | 9.210 |
| | 3 | .007 | 20.387 |
| 3 | 1 | 3.929 | 1.000 |
| | 2 | .058 | 8.229 |
| | 3 | .013 | 17.543 |
| | 4 | .000 | 142.086 |

Collinearity Diagnostics^a

| | - | Variance Proportions | | | | | | |
|-------|-----------|----------------------|------------------|-----------|---------------------|--|--|--|
| Model | Dimension | (Constant) | MeanSenseof s | MeanTrust | MeanSensex Trust | | | |
| 1 | 1 | .00 | .00 | | | | | |
| | 2 | 1.00 | 1.00 | | | | | |
| 2 | 1 | .00 | .00 | .01 | | | | |
| ļ | 2 | .06 | .06 | .99 | | | | |
| | 3 | .94 | .94 | .00 | | | | |
| 3 | 1 | .00 | .00 | .00 | .00 | | | |
| ì | 2 | .00 | .00 | .00 | .00 | | | |
| | 3 | .01 | .02 | .02 | .01 | | | |
| | 4 | .99 | .98 | .98 | .99 | | | |

a. Dependent Variable: MeanKSB

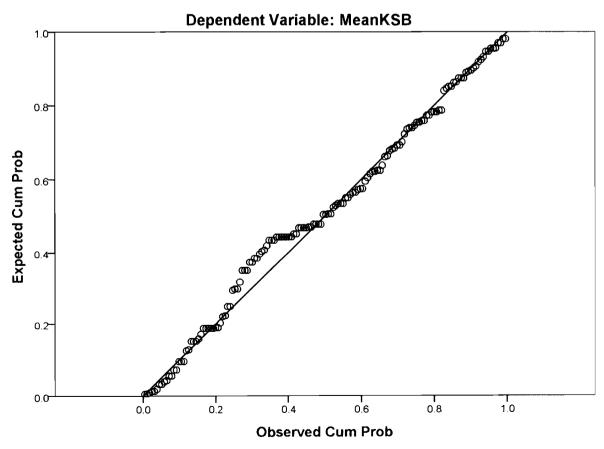
Residuals Statistics^a

| | Minimum | Maximum | Mean | Std. Deviation | N |
|--------------------------------------|----------|---------|--------|----------------|-----|
| Predicted Value | 3.6714 | 4.8758 | 4.1571 | .24575 | 148 |
| Std. Predicted Value | -1.976 | 2.925 | .000 | 1.000 | 148 |
| Standard Error of Predicted Value | .040 | .192 | .071 | .029 | 148 |
| Adjusted Predicted Value | 3.6339 | 4.8557 | 4.1563 | .24750 | 148 |
| Residual | -1.17930 | .97560 | .00000 | .46039 | 148 |
| Std. Residual | -2.535 | 2.097 | .000 | .990 | 148 |
| Stud. Residual | -2.558 | 2.107 | .001 | 1.002 | 148 |
| Deleted Residual | -1.20271 | .98423 | .00076 | .47175 | 148 |
| Stud. Deleted Residual | -2.609 | 2.132 | .000 | 1.009 | 148 |
| Mahal. Distance | .072 | 24.005 | 2.980 | 3.920 | 148 |
| Cook's Distance | .000 | .080 | .006 | .012 | 148 |
| Centered Leverage Value | .000 | .163 | .020 | .027 | 148 |

a. Dependent Variable: MeanKSB

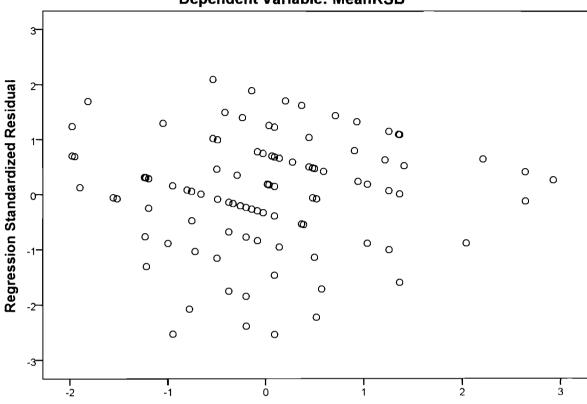
Charts

Normal P-P Plot of Regression Standardized Residual



Scatterplot

Dependent Variable: MeanKSB



Regression Standardized Predicted Value

```
GET
  FILE='C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test Ain.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
COMPUTE MeanAttitudesxKSB=MeanAttitudes * MeanKSB.
EXECUTE.
COMPUTE MeanAttitudesxTrust=MeanAttitudes * MeanTrust.
EXECUTE.
REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING PAIRWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL CHANGE ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT MeanKSB
  /METHOD=ENTER MeanAttitudes
  /METHOD=ENTER MeanAttitudes MeanTrust
  /METHOD=ENTER MeanAttitudesxTrust
  /SCATTERPLOT=(*ZRESID ,*ZPRED)
  /RESIDUALS DURBIN NORMPROB(ZRESID)
  /CASEWISE PLOT(ZRESID) OUTLIERS(3)
```

Regression

/SAVE MAHAL COOK.

[DataSet1] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test Ain.sav

Descriptive Statistics

| | Mean | Std. Deviation | N |
|---------------------|---------|----------------|-----|
| MeanKSB | 4.1571 | .52187 | 148 |
| MeanAttitudes | 4.0101 | .57117 | 148 |
| MeanTrust | 3.2054 | .77721 | 148 |
| MeanAttitudesxTrust | 13.0212 | 4.22699 | 148 |

Correlations

| | | MeanKSB | MeanAttitudes | M eanTrust | MeanAttitudes xTrust |
|---------------------|---------------------|---------|---------------|-------------------|-------------------------|
| Pearson Correlation | MeanKSB | 1.000 | .507 | .239 | .407 |
| | MeanAttitudes | .507 | 1.000 | .379 | .713 |
| | MeanTrust | .239 | .379 | 1.000 | .913 |
| | MeanAttitudesxTrust | .407 | .713 | .913 | 1.000 |
| Sig. (1-tailed) | MeanKSB | | .000 | .002 | .000 |
| | MeanAttitudes | .000 | | .000 | .000 |
| | MeanTrust | .002 | .000 | | .000 |
| | MeanAttitudesxTrust | .000 | .000 | .000 | |
| N | MeanKSB | 148 | 148 | 148 | 148 |
| | MeanAttitudes | 148 | 148 | 148 | 148 |
| | MeanTrust | 148 | 148 | 148 | 148 |
| | MeanAttitudesxTrust | 148 | 148 | 148 | 148 |

Variables Entered/Removed

| Model | Variables Entered | Variables Removed | Method |
|-------|-------------------------|----------------------|--------|
| 1 | MeanAttitudes | | Enter |
| 2 | MeanTrust ^a | | Enter |
| 3 | MeanAttitudes xTrust | | Enter |

a. All requested variables entered.b. Dependent Variable: MeanKSB

Model Summary^d

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|----------------------|----------------------------|
| 1 | .507 ^a | .257 | .252 | .45131 |
| 2 | .510 ^b | .260 | .250 | .45207 |
| 3 | .521 ^c | .271 | .256 | .45018 |

Model Summary^d

| | | - | | | | |
|-------|--------------------|----------|-----|-----|---------------|-------------------|
| Model | R Square Change | F Change | df1 | df2 | Sig. F Change | Durbin- Watson |
| 1 | .257 | 50.558 | 1 | 146 | .000 | |
| 2 | .003 | .511 | 1 | 145 | .476 | |
| 3 | .011 | 2.221 | 1 | 144 | .138 | 2.072 |

a. Predictors: (Constant), MeanAttitudes
b. Predictors: (Constant), MeanAttitudes, MeanTrust
c. Predictors: (Constant), MeanAttitudes, MeanTrust, MeanAttitudesxTrust
d. Dependent Variable: MeanKSB

$\mathsf{ANOVA}^\mathsf{d}$

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|-------------------|-----|-------------|--------|-------|
| 1 | Regression | 10.298 | 1 | 10.298 | 50.558 | .000ª |
| | Residual | 29.737 | 146 | .204 | | |
| | Total | 40.035 | 147 | | | |
| 2 | Regression | 10.402 | 2 | 5.201 | 25.450 | .000 |
| | Residual | 29.633 | 145 | .204 | | |
| | Total | 40.035 | 147 | | | |
| 3 | Regression | 10.852 | 3 | 3.617 | 17.850 | .000° |
| | Residual | 29.183 | 144 | .203 | | |
| | Total | 40.035 | 147 | | | |

a. Predictors: (Constant), MeanAttitudes
b. Predictors: (Constant), MeanAttitudes, MeanTrust
c. Predictors: (Constant), MeanAttitudes, MeanTrust, MeanAttitudesxTrust
d. Dependent Variable: MeanKSB

Coefficients a

| | _ | Unstandardized Coefficients | | |
|-------|---------------------|-----------------------------|------------|--|
| Model | | В | Std. Error | |
| 1 | (Constant) | 2.299 | .264 | |
| ĺ | MeanAttitudes | .463 | .065 | |
| 2 | (Constant) | 2.257 | .271 | |
| | MeanAttitudes | .444 | .071 | |
| | MeanTrust | .037 | .052 | |
| 3 | (Constant) | 4.128 | 1.284 | |
| | MeanAttitudes | 020 | .319 | |
| | MeanTrust | 560 | .404 | |
| | MeanAttitudesxTrust | .146 | .098 | |

Coefficients ^a

| | | Standardized Coefficients | | | 95.0% Confidence Interval for B |
|-------|---------------------|------------------------------|--------|------|---------------------------------------|
| Model | | Beta | t | Sig. | Lower Bound |
| 1 | (Constant) | | 8.709 | .000 | 1.777 |
| | MeanAttitudes | .507 | 7.110 | .000 | .335 |
| 2 | (Constant) | | 8.330 | .000 | 1.721 |
| | MeanAttitudes | .486 | 6.299 | .000 | .305 |
| | MeanTrust | .055 | .715 | .476 | 065 |
| 3 | (Constant) | | 3.214 | .002 | 1.590 |
| | MeanAttitudes | 022 | 062 | .951 | 651 |
| | MeanTrust | 834 | -1.386 | .168 | -1.358 |
| | MeanAttitudesxTrust | 1.184 | 1.490 | .138 | 048 |

Coefficients^a

| | | 95.0% Confidence Interval for B | Correlations | | |
|-------|---------------------|---------------------------------------|--------------|---------|------|
| Model | | Upper Bound | Zero-order | Partial | Part |
| 1 | (Constant) | 2.821 | | | |
| | MeanAttitudes | .592 | .507 | .507 | .507 |
| 2 | (Constant) | 2.792 | | | |
| | MeanAttitudes | .584 | .507 | .463 | .450 |
| | MeanTrust | .140 | .239 | .059 | .051 |
| 3 | (Constant) | 6.666 | | | |
| | MeanAttitudes | .611 | .507 | 005 | 004 |
| | MeanTrust | .238 | .239 | 115 | 099 |
| | MeanAttitudesxTrust | .340 | .407 | .123 | .106 |

Coefficients^a

| | | | Statistics |
|-------|---------------------|-----------|------------|
| Model | | Tolerance | VIF |
| 1 | (Constant) | | |
| | MeanAttitudes | 1.000 | 1.000 |
| 2 | (Constant) | | |
| | MeanAttitudes | .856 | 1.168 |
| ľ | MeanTrust | .856 | 1.168 |
| 3 | (Constant) | | |
| | MeanAttitudes | .041 | 24.108 |
| | MeanTrust | .014 | 71.460 |
| | MeanAttitudesxTrust | .008 | 124.663 |

a. Dependent Variable: MeanKSB

Excluded Variables^c

| Mode | | Beta In | t | Sig. | Partial Correlation |
|------|---------------------|--------------------|-------|------|------------------------|
| 1 | MeanTrust | .055ª | .715 | .476 | .059 |
| | MeanAttitudesxTrust | .092 ^a | .899 | .370 | .074 |
| 2 | MeanAttitudesxTrust | 1.184 ^b | 1.490 | .138 | .123 |

Excluded Variables^c

| | _ | Collinearity Statistics | | |
|-------|---------------------|-------------------------|---------|----------------------|
| Model | | Tolerance | VIF | Minimum Tolerance |
| 1 | MeanTrust | .856 | 1.168 | .856 |
| | MeanAttitudesxTrust | .491 | 2.037 | .491 |
| 2 | MeanAttitudesxTrust | .008 | 124.663 | .008 |

- a. Predictors in the Model: (Constant), MeanAttitudesb. Predictors in the Model: (Constant), MeanAttitudes, MeanTrustc. Dependent Variable: MeanKSB

Collinearity Diagnostics^a

| Model | Dimension | Eigenvalue | Condition Index |
|-------|-----------|------------|--------------------|
| 1 | 1 | 1.990 | 1.000 |
| | 2 | .010 | 14.160 |
| 2 | 1 | 2.958 | 1.000 |
| | 2 | .032 | 9.586 |
| | 3 | .010 | 17.372 |
| 3 | 1 | 3.926 | 1.000 |
| | 2 | .058 | 8.203 |
| | 3 | .015 | 15.999 |
|] | 4 | .000 | 139.449 |

Collinearity Diagnostics

| | | Variance Proportions | | | |
|-------|-----------|----------------------|---------------|-----------|-------------------------|
| Model | Dimension | (Constant) | MeanAttitudes | MeanTrust | MeanAttitudes xTrust |
| 1 | 1 | .00 | .00 | | |
| | 2 | 1.00 | 1.00 | | |
| 2 | 1 | .00 | .00 | .01 | |
| | 2 | .12 | .07 | .98 | |
| ł | 3 | .88 | .93 | .02 | |
| 3 | 1 | .00 | .00 | .00 | .00 |
| | 2 | .01 | .00 | .00 | .00 |
| | 3 | .01 | .02 | .02 | .01 |
| | 4 | .99 | .98 | .98 | .99 |

a. Dependent Variable: MeanKSB

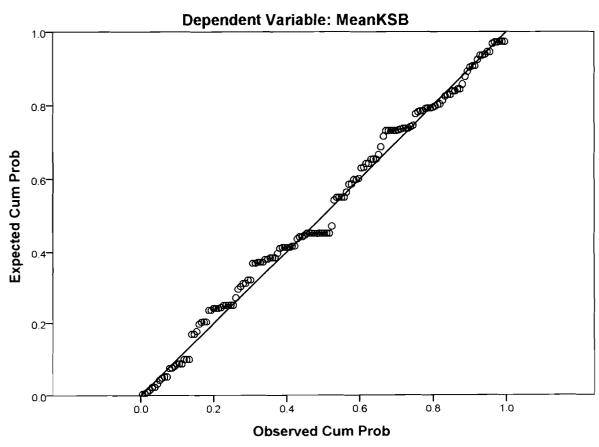
Residuals Statistics^a

| | Minimum | Maximum | Mean | Std. Deviation | N |
|--------------------------------------|----------|---------|--------|----------------|-----|
| Predicted Value | 3.5647 | 4.8837 | 4.1571 | .27171 | 148 |
| Std. Predicted Value | -2.180 | 2.674 | .000 | 1.000 | 148 |
| Standard Error of Predicted Value | .040 | .178 | .070 | .025 | 148 |
| Adjusted Predicted Value | 3.5805 | 4.8620 | 4.1561 | .27278 | 148 |
| Residual | -1.19264 | .87498 | .00000 | .44556 | 148 |
| Std. Residual | -2.649 | 1.944 | .000 | .990 | 148 |
| Stud. Residual | -2.676 | 1.979 | .001 | 1.002 | 148 |
| Deleted Residual | -1.21695 | .90689 | .00096 | .45634 | 148 |
| Stud. Deleted Residual | -2.736 | 1.999 | .000 | 1.008 | 148 |
| Mahal. Distance | .195 | 22.044 | 2.980 | 3.217 | 148 |
| Cook's Distance | .000 | .036 | .006 | .008 | 148 |
| Centered Leverage Value | .001 | .150 | .020 | .022 | 148 |

a. Dependent Variable: MeanKSB

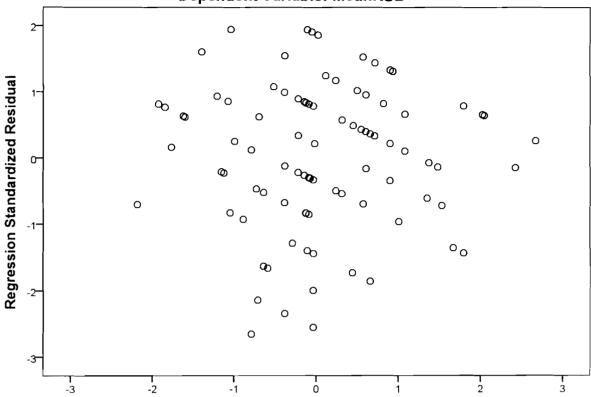
Charts

Normal P-P Plot of Regression Standardized Residual



Scatterplot





Regression Standardized Predicted Value

```
GET
```

```
FILE='C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test Ain.sav'.
DATASET NAME DataSetl WINDOW=FRONT.
COMPUTE MeanIncentivexTrust=MeanIncentives * MeanTrust.
EXECUTE.
REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING PAIRWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL CHANGE ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT MeanKSB
  /METHOD=ENTER MeanIncentives
  /METHOD=ENTER MeanIncentives MeanTrust
  /METHOD=ENTER MeanIncentivexTrust
 /SCATTERPLOT=(*ZRESID ,*ZPRED)
  /RESIDUALS DURBIN NORMPROB(ZRESID)
  /CASEWISE PLOT(ZRESID) OUTLIERS(3)
  /SAVE MAHAL COOK.
```

Regression

[DataSetl] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test Ain.sav

Descriptive Statistics

| | Mean | Std. Deviation | N |
|---------------------|---------|----------------|-----|
| MeanKSB | 4.1571 | .52187 | 148 |
| MeanIncentives | 3.1716 | .74249 | 148 |
| MeanTrust | 3.2054 | .77721 | 148 |
| MeanIncentivexTrust | 10.4114 | 4.05809 | 148 |

Correlations

| | | MeanKSB | Mean Incentives | MeanTrust |
|---------------------|---------------------|---------|--------------------|-----------|
| Pearson Correlation | MeanKSB | 1.000 | .257 | .239 |
| | MeanIncentives | .257 | 1.000 | .427 |
| | MeanTrust | .239 | .427 | 1.000 |
| | MeanIncentivexTrust | .298 | .840 | .829 |
| Sig. (1-tailed) | MeanKSB | | .001 | .002 |
| | MeanIncentives | .001 | | .000 |
| | MeanTrust | .002 | .000 | |
| | MeanIncentivexTrust | .000 | .000 | .000 |
| N | MeanKSB | 148 | 148 | 148 |
| | MeanIncentives | 148 | 148 | 148 |
| | MeanTrust | 148 | 148 | 148 |
| | MeanIncentivexTrust | 148 | 148 | 148 |

Correlations

| | | Mean Incentivex Trust |
|---------------------|---------------------|-----------------------------|
| Pearson Correlation | MeanKSB | .298 |
| | MeanIncentives | .840 |
| | MeanTrust | .829 |
| | MeanIncentivexTrust | 1.000 |
| Sig. (1-tailed) | MeanKSB | .000 |
| | MeanIncentives | .000 |
| | MeanTrust | .000 |
| | MeanIncentivexTrust | |
| N | MeanKSB | 148 |
| | MeanIncentives | 148 |
| | MeanTrust | 148 |
| | MeanIncentivexTrust | 148 |

Variables Entered/Removed^b

| Model | Variables Entered | Variables Removed | Method |
|-------|-----------------------------|----------------------|--------|
| 1 | Mean Incentives | | Enter |
| 2 | MeanTrust ^a | | Enter |
| 3 | Mean Incentivex Trust | | Enter |

- a. All requested variables entered.b. Dependent Variable: MeanKSB

Model Summary^d

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|----------------------|----------------------------|
| 1 | .257 ^a | .066 | .060 | .50601 |
| 2 | .294 ^b | .087 | .074 | .50215 |
| 3 | .298 ^c | .089 | .070 | .50331 |

Model Summary^d

| | | _ | | | | |
|-------|--------------------|----------|-----|-----|---------------|-------------------|
| Model | R Square Change | F Change | df1 | df2 | Sig. F Change | Durbin- Watson |
| 1 | .066 | 10.357 | 1 | 146 | .002 | |
| 2 | .020 | 3.252 | 1 | 145 | .073 | |
| 3 | .002 | .332 | 1 | 144 | .565 | 1.824 |

a. Predictors: (Constant), MeanIncentives
b. Predictors: (Constant), MeanIncentives, MeanTrust
c. Predictors: (Constant), MeanIncentives, MeanTrust, MeanIncentivexTrust
d. Dependent Variable: MeanKSB

$\mathsf{ANOVA}^\mathsf{d}$

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|-------------------|-----|-------------|--------|-------------------|
| 1 | Regression | 2.652 | 1 | 2.652 | 10.357 | .002ª |
| | Residual | 37.383 | 146 | .256 | | |
| | Total | 40.035 | 147 | | | |
| 2 | Regression | 3.472 | 2 | 1.736 | 6.885 | .001 ^B |
| | Residual | 36.563 | 145 | .252 | | |
| | Total | 40.035 | 147 | | | |
| 3 | Regression | 3.556 | 3 | 1.185 | 4.679 | .004 ^c |
| | Residual | 36.479 | 144 | .253 | | |
| _ | Total | 40.035 | 147 | | | |

a. Predictors: (Constant), MeanIncentives
b. Predictors: (Constant), MeanIncentives, MeanTrust
c. Predictors: (Constant), MeanIncentives, MeanTrust, MeanIncentivexTrust
d. Dependent Variable: MeanKSB

Coefficients^a

| | | Unstandardized Coefficients | | |
|-------|---------------------|-----------------------------|------------|--|
| Model | | В | Std. Error | |
| 1 | (Constant) | 3.583 | .183 | |
| | MeanIncentives | .181 | .056 | |
| 2 | (Constant) | 3.393 | .210 | |
| | MeanIncentives | .133 | .062 | |
| | MeanTrust | .106 | .059 | |
| 3 | (Constant) | 3.753 | .658 | |
| | MeanIncentives | .011 | .222 | |
| | MeanTrust | 007 | .205 | |
| | MeanIncentivexTrust | .038 | .066 | |

Coefficients^a

| | | Standardized Coefficients | | | 95.0% Confidence Interval for B |
|-------|---------------------|------------------------------|----------|------|---------------------------------------|
| Model | | Beta | t | Sig. | Lower Bound |
| 1 | (Constant) | | 19.574 | .000 | 3.222 |
| | MeanIncentives | .257 | 3.218 | .002 | .070 |
| 2 | (Constant) | | . 16.161 | .000 | 2.978 |
| | MeanIncentives | .190 | 2.161 | .032 | .011 |
| | MeanTrust | .158 | 1.803 | .073 | 010 |
| 3 | (Constant) | | 5.705 | .000 | 2.453 |
| | MeanIncentives | .015 | .048 | .962 | 427 |
| | MeanTrust | 011 | 034 | .973 | 413 |
| | MeanIncentivexTrust | .294 | .577 | .565 | 092 |

Coefficients

| | | 95.0% Confidence Interval for B | Correlations | | |
|-------|---------------------|---------------------------------------|--------------|---------|------|
| Model | | Upper Bound | Zero-order | Partial | Part |
| 1 | (Constant) | 3.945 | | | |
| | MeanIncentives | .292 | .257 | .257 | .257 |
| 2 | (Constant) | 3.808 | | | |
| | MeanIncentives | .255 | .257 | .177 | .171 |
| | MeanTrust | .223 | .239 | .148 | .143 |
| 3 | (Constant) | 5.053 | | | |
| | MeanIncentives | .449 | .257 | .004 | .004 |
| | MeanTrust | .399 | .239 | 003 | 003 |
| | MeanIncentivexTrust | .167 | .298 | .048 | .046 |

Coefficients^a

| | | Collinearity Statistics | | |
|-------|---------------------|-------------------------|--------|--|
| Model | | Tolerance | VIF | |
| 1 | (Constant) | | | |
| | MeanIncentives | 1.000 | 1.000 | |
| 2 | (Constant) | | | |
| | MeanIncentives | .817 | 1.224 | |
| | MeanTrust | .817 | 1.224 | |
| 3 | (Constant) | _ | | |
| | MeanIncentives | .064 | 15.715 | |
| | MeanTrust | .068 | 14.779 | |
| | MeanIncentivexTrust | .024 | 41.029 | |

a. Dependent Variable: MeanKSB

Excluded Variables^c

| Model | | Beta In | t | Sig. | Partial Correlation |
|-------|---------------------|-------------------|-------|------|------------------------|
| 1 | MeanTrust | .158ª | 1.803 | .073 | .148 |
| | MeanIncentivexTrust | .277 ^a | 1.896 | .060 | .156 |
| 2 | MeanIncentivexTrust | .294 ^b | .577 | .565 | .048 |

Excluded Variables^c

| | | Collinearity Statistics | | | |
|-------|---------------------|-------------------------|--------|----------------------|--|
| Model | | Tolerance | VIF | Minimum Tolerance | |
| 1 | MeanTrust | .817 | 1.224 | .817 | |
| | MeanIncentivexTrust | .294 | 3.397 | .294 | |
| 2 | MeanIncentivexTrust | .024 | 41.029 | .024 | |

a. Predictors in the Model: (Constant), MeanIncentives
b. Predictors in the Model: (Constant), MeanIncentives, MeanTrust
c. Dependent Variable: MeanKSB

Collinearity Diagnostics^a

| Model | Dimension | Eigenvalue | Condition Index |
|-------|-----------|------------|--------------------|
| 1 | 1 | 1.974 | 1.000 |
| | 2 | .026 | 8.687 |
| 2 | 1 | 2.944 | 1.000 |
| | 2 | .031 | 9.77 4 |
| | 3 | .026 | 10.709 |
| 3 | 1 | 3.901 | 1.000 |
| | 2 | .068 | 7.575 |
| | 3 | .031 | 11.292 |
| | 4 | .001 | 65.213 |

Collinearity Diagnostics^a

| | | Variance Proportions | | | | |
|-------|-----------|----------------------|--------------------|-----------|-----------------------------|--|
| Model | Dimension | (Constant) | Mean Incentives | MeanTrust | Mean Incentivex Trust | |
| 1 | 1 | .01 | .01 | | | |
| | 2 | .99 | .99 | | | |
| 2 | 1 | .00 | .00 | .01 | | |
| | 2 | .04 | .50 | .88 | | |
| | 3 | .96 | .49 | .11 | | |
| 3 | 1 | .00 | .00 | .00 | .00 | |
| | 2 | .03 | .00 | .00 | .02 | |
| | 3 | .00 | .05 | .06 | .00 | |
| | 4 | .97 | .95 | .94 | .98 | |

a. Dependent Variable: MeanKSB

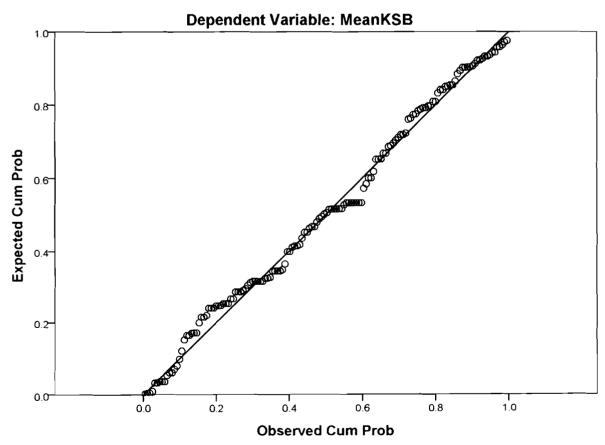
Residuals Statistics^a

| | Minimum | Maximum | Mean | Std. Deviation | N |
|--------------------------------------|----------|---------|--------|----------------|-----|
| Predicted Value | 3.8338 | 4.6422 | 4.1571 | .15554 | 148 |
| Std. Predicted Value | -2.079 | 3.119 | .000 | 1.000 | 148 |
| Standard Error of Predicted Value | .044 | .212 | .076 | .033 | 148 |
| Adjusted Predicted Value | 3.9061 | 4.6224 | 4.1568 | .15135 | 148 |
| Residual | -1.39093 | 1.00086 | .00000 | .49815 | 148 |
| Std. Residual | -2.764 | 1.989 | .000 | .990 | 148 |
| Stud. Residual | -2.842 | 2.004 | .000 | 1.002 | 148 |
| Deleted Residual | -1.47069 | 1.01624 | .00034 | .51095 | 148 |
| Stud. Deleted Residual | -2.915 | 2.025 | 001 | 1.009 | 148 |
| Mahal. Distance | .155 | 25.175 | 2.980 | 4.507 | 148 |
| Cook's Distance | .000 | .116 | .006 | .012 | 148 |
| Centered Leverage Value | .001 | .171 | .020 | .031 | 148 |

a. Dependent Variable: MeanKSB

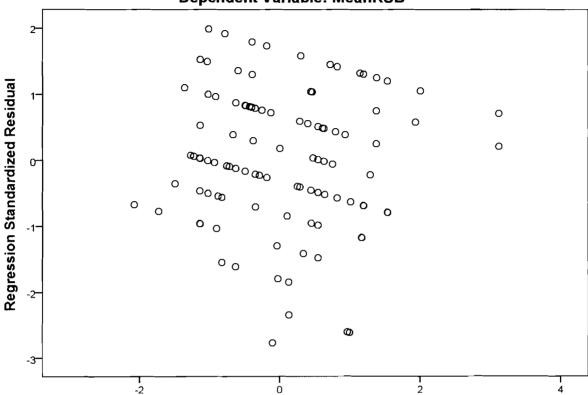
Charts

Normal P-P Plot of Regression Standardized Residual



Scatterplot





Regression Standardized Predicted Value

```
GET
```

```
FILE='C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test Ain.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
COMPUTE MeanMSupportxTrust=MeanMSupport * MeanTrust.
EXECUTE.
REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING PAIRWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL CHANGE ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT MeanKSB
  /METHOD=ENTER MeanMSupport
  /METHOD=ENTER MeanMSupport MeanTrust
  /METHOD=ENTER MeanMSupportxTrust
  /SCATTERPLOT=(*ZRESID ,*ZPRED)
  /RESIDUALS DURBIN NORMPROB(ZRESID)
  /CASEWISE PLOT(ZRESID) OUTLIERS(3)
  /SAVE MAHAL COOK.
```

Regression

[DataSet1] C:\Users\Ain\Google Drive\Thesis\SPSS\Actual Test Ain.sav

Descriptive Statistics

| | Mean | Std. Deviation | N |
|--------------------|---------|----------------|-----|
| MeanKSB | 4.1571 | .52187 | 148 |
| MeanMSupport | 3.8581 | .61110 | 148 |
| MeanTrust | 3.2054 | .77721 | 148 |
| MeanMSupportxTrust | 12.5135 | 4.08748 | 148 |

Correlations

| | | MeanKSB | Mean MSupport | MeanTrust |
|---------------------|--------------------|---------|------------------|-----------|
| Pearson Correlation | MeanKSB | 1.000 | .233 | .239 |
| | MeanMSupport | .233 | 1.000 | .311 |
| | MeanTrust | .239 | .311 | 1.000 |
| | MeanMSupportxTrust | .290 | .712 | .877 |
| Sig. (1-tailed) | MeanKSB | | .002 | .002 |
| | MeanMSupport | .002 | | .000 |
| | MeanTrust | .002 | .000 | |
| | MeanMSupportxTrust | .000 | .000 | .000 |
| N | MeanKSB | 148 | 148 | 148 |
| | MeanMSupport | 148 | 148 | 148 |
| | MeanTrust | 148 | 148 | 148 |
| <u></u> | MeanMSupportxTrust | 148 | 148 | 148 |

Correlations

| | | Mean MSupportx Trust |
|---------------------|--------------------|----------------------------|
| Pearson Correlation | MeanKSB | .290 |
| | MeanMSupport | .712 |
| | MeanTrust | .877 |
| ļ | MeanMSupportxTrust | 1.000 |
| Sig. (1-tailed) | MeanKSB | .000 |
| | MeanMSupport | .000 |
| | MeanTrust | .000 |
| | MeanMSupportxTrust | |
| N | MeanKSB | 148 |
| | MeanMSupport | 148 |
| | MeanTrust | 148 |
| | MeanMSupportxTrust | 148 |

Variables Entered/Removed^b

| Model | Variables Entered | Variables Removed | Method |
|-------|----------------------------|----------------------|--------|
| 1 | Mean MSupport | | Enter |
| 2 | MeanTrust ^a | | Enter |
| 3 | Mean MSupportx Trust | | Enter |

a. All requested variables entered. b. Dependent Variable: MeanKSB

Model Summary^d

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|----------------------|----------------------------|
| 1 | .233ª | .054 | .048 | .50924 |
| 2 | .292 ^b | .085 | .073 | .50259 |
| 3 | .292 ^c | .086 | .066 | .50423 |

Model Summary^d

| | Change Statistics | | | | | |
|-------|--------------------|----------|-----|-----|---------------|-------------------|
| Model | R Square Change | F Change | df1 | df2 | Sig. F Change | Durbin∹ Watson |
| 1 | .054 | 8.383 | 1 | 146 | .004 | |
| 2 | .031 | 4.890 | 1 | 145 | .029 | |
| 3 | .000 | .057 | 1 | 144 | .812 | 1.883 |

a Predictors: (Constant), MeanMSupport b. Predictors: (Constant), MeanMSupport, MeanTrust c. Predictors: (Constant), MeanMSupport, MeanTrust, MeanMSupportxTrust d. Dependent Variable: MeanKSB

ANOVAd

| Mode | | Sum of Squares | df | Mean Square | F | Sig. |
|------|------------|-------------------|-----|-------------|-------|-------------------|
| 1 | Regression | 2.174 | 1 | 2.174 | 8.383 | .004ª |
|] | Residual | 37.861 | 146 | .259 | | |
| | Total | 40.035 | 147 | | | |
| 2 | Regression | 3.409 | 2 | 1.705 | 6.748 | .002 ^b |
| | Residual | 36.626 | 145 | .253 | | |
| | Total | 40.035 | 147 | | | |
| 3 | Regression | 3.423 | 3 | 1.141 | 4.488 | .005 |
| | Residual | 36.612 | 144 | .254 | | |
| | Total | 40.035 | 147 | | | |

a. Predictors: (Constant), MeanMSupport b. Predictors: (Constant), MeanMSupport, MeanTrust c. Predictors: (Constant), MeanMSupport, MeanTrust, MeanMSupportxTrust d. Dependent Variable: MeanKSB

Coefficients^a

| | | Unstandardized Coefficients | | |
|-------|--------------------|-----------------------------|------------|--|
| Model | | В | Std. Error | |
| 1 | (Constant) | 3.389 | .268 | |
| | MeanMSupport | .199 | .069 | |
| 2 | (Constant) | 3.181 | .281 | |
| | MeanMSupport | .150 | .071 | |
| | MeanTrust | .124 | .056 | |
| 3 | (Constant) | 3.409 | .998 | |
| | MeanMSupport | .089 | .264 | |
| | MeanTrust | .053 | .303 | |
| | MeanMSupportxTrust | .019 | .078 | |

Coefficients^a

| | | Standardized Coefficients | | | 95.0% Confidence Interval for B |
|-------|--------------------|------------------------------|--------|------|---------------------------------------|
| Model | | Beta | t | Sig. | Lower Bound |
| 1 | (Constant) | | 12.625 | .000 | 2.859 |
| | MeanMSupport | .233 | 2.895 | .004 | .063 |
| 2 | (Constant) | | 11.312 | .000 | 2.625 |
| | MeanMSupport | .176 | 2.100 | .037 | .009 |
| | MeanTrust | .185 | 2.211 | .029 | .013 |
| 3 | (Constant) | | 3.415 | .001 | 1.436 |
| | MeanMSupport | .105 | .339 | .735 | 431 |
| | MeanTrust | .079 | .175 | .862 | - 547 |
| | MeanMSupportxTrust | .146 | .238 | .812 | 136 |

Coefficients

| | | 95.0% Confidence Interval for B | Correlations | | |
|-------|--------------------|---------------------------------------|--------------|---------|------|
| Model | | Upper Bound | Zero-order | Partial | Part |
| 1 | (Constant) | 3.920 | | - | |
| | MeanMSupport | .335 | .233 | .233 | .233 |
| 2 | (Constant) | 3.737 | | | |
| | MeanMSupport | .291 | .233 | .172 | .167 |
| i | MeanTrust | .235 | .239 | .181 | .176 |
| 3 | (Constant) | 5.382 | | | _ |
| | MeanMSupport | .610 | .233 | .028 | .027 |
| | MeanTrust | .653 | .239 | .015 | .014 |
| | MeanMSupportxTrust | .173 | .290 | .020 | .019 |

Coefficients

| | | Collinearity Statistics | | |
|-------|--------------------|-------------------------|--------|--|
| Model | | Tolerance | VIF | |
| 1 | (Constant) | | | |
| | MeanMSupport | 1.000 | 1.000 | |
| 2 | (Constant) | | | |
| | MeanMSupport | .903 | 1.107 | |
| l | MeanTrust | .903 | 1.107 | |
| 3 | (Constant) | | _ | |
| | MeanMSupport | .067 | 14.996 | |
| | MeanTrust | .031 | 32.160 | |
| | MeanMSupportxTrust | .017 | 58.859 | |

a. Dependent Variable: MeanKSB

Excluded Variables^c

| Mod | del | Beta In | t | Sig. | Partial Correlation |
|-----|--------------------|-------------------|-------|------|------------------------|
| 1 | MeanTrust | .185 | 2.211 | .029 | .181 |
| | MeanMSupportxTrust | .251 ^a | 2.218 | .028 | .181 |
| 2 | MeanMSupportxTrust | .146 ^b | .238 | .812 | .020 |

Excluded Variables^c

| | | Collinearity Statistics | | | |
|-------|--------------------|-------------------------|--------|----------------------|--|
| Model | | Tolerance | VIF | Minimum Tolerance | |
| 1 | MeanTrust | .903 | 1.107 | .903 | |
| | MeanMSupportxTrust | .494 | 2.026 | .494 | |
| 2 | MeanMSupportxTrust | .017 | 58.859 | .017 | |

a. Predictors in the Model: (Constant), MeanMSupport b Predictors in the Model: (Constant), MeanMSupport, MeanTrust c. Dependent Variable: MeanKSB

Collinearity Diagnostics^a

| Model | Dimension | Eigenvalue | Condition Index |
|-------|-----------|------------|--------------------|
| 1 | 1 | 1.988 | 1.000 |
| | 2 | .012 | 12.748 |
| 2 | 1 | 2.954 | 1.000 |
| | 2 | .034 | 9.385 |
| | 3 | .012 | 15.544 |
| 3 | 1 | 3.922 | 1.000 |
| | 2 | .057 | 8.287 |
| | 3 | .020 | 13.832 |
| | 4 | .000 | 95.541 |

Collinearity Diagnostics^a

| | | Variance Proportions | | | | |
|-----------------|---|----------------------|------------------|-----------|----------------------------|--|
| Model Dimension | | (Constant) | Mean MSupport | MeanTrust | Mean MSupportx Trust | |
| 1 | 1 | .01 | .01 | | | |
| | 2 | .99 | .99 | | | |
| 2 | 1 | .00 | .00 | .01 | | |
| | 2 | .10 | .11 | .99 | | |
| 1 | 3 | .90 | .88 | .00 | | |
| 3 | 1 | .00 | .00 | .00 | .00 | |
| | 2 | .01 | .00. | .00 | .01 | |
| | 3 | .01 | .03 | .03 | .01 | |
| | 4 | .98 | .97 | .96 | .98 | |

a. Dependent Variable: MeanKSB

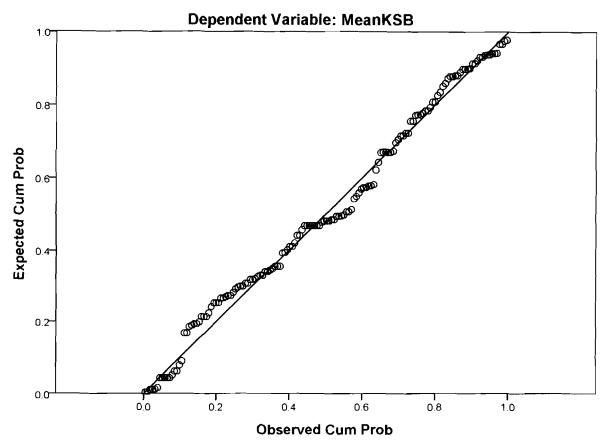
Residuals Statistics^a

| | Minimum | Maximum | Mean | Std. Deviation | N |
|--------------------------------------|----------|---------|--------|----------------|-----|
| Predicted Value | 3.7686 | 4.5867 | 4.1571 | .15261 | 148 |
| Std. Predicted Value | -2.546 | 2.815 | .000 | 1.000 | 148 |
| Standard Error of Predicted Value | .044 | .215 | .075 | .035 | 148 |
| Adjusted Predicted Value | 3.8279 | 4.5187 | 4.1559 | .15184 | 148 |
| Residual | -1.32287 | 1.01770 | .00000 | .49906 | 148 |
| Std. Residual | -2.624 | 2.018 | .000 | .990 | 148 |
| Stud. Residual | -2.648 | 2.040 | .001 | 1.001 | 148 |
| Deleted Residual | -1.34781 | 1.03997 | .00114 | .51052 | 148 |
| Stud. Deleted Residual | -2.706 | 2.063 | .000 | 1.008 | 148 |
| Mahal. Distance | .137 | 25.610 | 2.980 | 4.616 | 148 |
| Cook's Distance | .000 | .050 | .006 | .009 | 148 |
| Centered Leverage Value | .001 | .174 | .020 | .031 | 148 |

a. Dependent Variable: MeanKSB

Charts

Normal P-P Plot of Regression Standardized Residual



Scatterplot

