

**BUSINESS INTELLIGENCE MODEL FOR A STUDENT DATA  
WAREHOUSE IN UUM ENVIRONMENT**

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**Universiti Utara Malaysia**

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**BUSINESS INTELLIGENCE MODEL FOR A STUDENT DATA  
WAREHOUSE IN UUM ENVIRONMENT**

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By  
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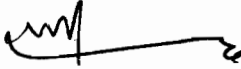
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## **ABSTRACT**

Organization was and still in a need for the data warehouse techniques to keep itself in the lead, the best in using these techniques and come up with the desired results are the applications that are using the OLAP techniques and the BI methods, in this study there was a need for a data warehouse, BI model and the OLAP techniques to analyze the data so I had addressed these three factors as my problem and solve it by building the BI model, building a system and use the OLAP techniques in the system to the decision makers in the UUM university make better decisions for the benefit of the university and its students.

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## **LIST OF ABBREVIATIONS**

<b>UUM</b>	Universiti Utara Malaysia
<b>SDW</b>	Student Data Warehouse
<b>BI</b>	Business Intelligence
<b>IT</b>	Information Technology
<b>ETL</b>	Extract Transform Load
<b>DSS</b>	Decision Support System
<b>VC</b>	Vice chancellor
<b>My SQL</b>	Multithreaded, Multi-User SQL Database Management System
<b>OLAP</b>	Online Analytical Process
<b>UML</b>	Unified Modeling Language
<b>HP</b>	Hewlett Packed
<b>DDM</b>	Dimensional Data Model
<b>SPSS</b>	Statistical Package for Social Sciences
<b>JSP</b>	Java Server Pages

## **CHAPTER ONE**

### **INTRODUCTION**

#### **1.1 Data warehouse**

The data warehouse is a collection of data architected and formed into one environment and can serve the user through multiple tools, these tools analyze and predicate the data to come up with the results which will give the organizations better and cheaper solutions. There are six characteristics that should be in the data warehouse and these are:

##### **1.1.1 Subject-Oriented**

The information presented is about a specific subject or specific kind of interest means that the data is processed and the result will be the desired information, for example the end user can make a request after that the data will be processed, structured and then presented to the user about the required subject.

##### **1.1.2 Integrated**

The data warehouse is all about one kind of information in other words when the extraction is complete there is another step come after that and this step is the

The contents of  
the thesis is for  
internal user  
only

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