AUTOMATION OF DATABASE NORMALIZATION PROCESS

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AUTOMATION OF DATABASE NORMALIZATION PROCESS

A thesis submitted to the Faculty of Information Technology in partial fulfillment of the requirements for the degree Master of Science (Information Technology), Universiti Utara Malaysia

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ABSTRACT

As the volume of information available on the internet and corporate internet continues to increase, there is growing interest in helping people better organize and manage all this database resources. Database normalization is one of the techniques that can be applied to manage and organize the database. This project looks to enhance this technique by automating this process. The aim of this project is to minimize the times of manual database normalization process, which can improve the performance of the database's developer.

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LIST OF ABBREVIATIONS

UML:	Unified Modeling Language
XML:	Extensible Markup Language
OCL:	Object Constraint Language
SDLC:	Development life Cycle
PHP:	Personal Home Page
ASP:	Microsoft Active Server Pages
JSP:	Java Server Pages

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CHAPTER 1

INTRODUCTION

1.0 Introduction

Now a days database management system playing very important role for running any kind of business because it make the process for posting and retrieving information very easy, interim of updating modifying, deletion, and etc. There are three phases for building a good databases system, which are conceptual database, representing of identification of the important entities, relationships, and attributes. Second phase, is logical database design, is concerned about how to translate the conceptual database to logical by designing relations, third physical database design, it is the process of producing a description of how the logical structure is to be physically implemented. This paper focus in the logical database part for the relational model, as well as for validates the relations using normalization concept. Normalization is defined as a process of organizing data to minimize duplication, isolate data so that addition, deletion, and modification of a field can be made. In short normalization is dividing a database into two or more tables and defining relationships between the tables [1]. Although the normalization help for building a good database management system, but it has lack of the manual process which it takes time accomplish it. Therefore, this project tries to come out with a prototype that can enhance the normalization process till third normal form (3NF) stages.

The contents of the thesis is for internal user only

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