

**DEVELOPING A JOB SCHEDULER AGENT
FOR MYSQL**

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APRIL 2005

**DEVELOPING A JOB SCHEDULER AGENT
FOR MYSQL**

An Independent Research

Presented to

**The Faculty of the Computer Studies Division
Ateneo de Davao University**

In Partial Fulfillment

of the Requirements for the Degree

Bachelor of Science major in Computer Science

by

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ABSTRACT

Databases play an important role in both database management and data storage in today's Information Age. The three of world's most popular databases are MySQL, MS SQL, and Oracle. Among these, MySQL is more commonly used because it is open-source and easily accessible. However, researches show that MySQL lacks features that MS SQL and Oracle currently have. Since it lacks features, such as triggers and jobs, there is a need to develop an application that would answer to these limitations.

Keywords:

Jobs, Job Scheduler, MySQL

CHAPTER 1

INTRODUCTION

1.1 Background of the Study

Databases play an important role in both database management and data storage in today's Information Age. The world's most popular databases are MySQL, MS SQL and Oracle. Among these, MySQL is growing in population in terms of usage because it is open-source and easily accessible. However, researches show that MySQL lacks features that MS SQL and Oracle currently have. This is a crucial problem, especially when the programmer is used to the features of MS SQL or of Oracle. A job scheduler in MS SQL and in Oracle is one example that MySQL does not have. With this, system administrators can schedule jobs when they want and can indicate how procedures should be done.

The team has been motivated to solve the problem of MySQL regarding the deficiency on features. It will be a great help for the companies that are using MySQL database. Their information system would give efficient records and data that the company needs. In addition, it would be beneficial for the programmers to lessen their work in the back-end. In example, a job scheduler can be used as a database management. Also, the proponents can give some contribution to the open-source community.

1.2 Statement of the Problem

The study will find out the answer to the general question: How to develop a job scheduler agent for MySQL?

Specifically, the study will provide answers to the following questions:

- What are jobs and job steps?
- What characteristics that a job scheduler should have?
- What is a job scheduler agent? How does it function? What processes are involved?
- How are jobs being logged?

1.3 Objectives of the Study

This study aims to develop a job scheduler agent for MySQL.

Specifically, this study aims to:

- To know what are jobs and job steps
- To identify the characteristics and functions of a job scheduler
- To know more about what job scheduler agent do on MS SQL and Oracle, how it functions and what processes are involved.
- To identify the process of logging job results.

1.4 Scope and Limitation of the Study

The proponents aim to develop a job scheduler agent for MySQL. It will record logs to determine if the scheduled activity has been accomplished or not. It will not provide checking of syntax but it will issue a failure message if it will not recognize the syntax.

The implementation would take place in the Ateneo de Davao University Computer Laboratory. It will be tested using sample databases.

1.5 Significance of the Study

The study is significant for MySQL users because they would be able to use the same features, such as jobs, as in MS SQL and Oracle.

In addition, it is beneficial for those MySQL database administrators because it will lessen their work on the back-end. An example will be maintaining database or managing database. Database administrators can add, edit, or delete records as part of maintaining records and databases. They will also minimize the job redundancy, as they will be able to schedule jobs when it is only needed.

1.6 Definition of Terms

- a. **Jobs** – are used to create repeatable procedures so you can schedule work how and when you need it.
- b. **Job Steps** - are actions that the job takes on a database or a server
- c. **Job Scheduler** – an application that will handle jobs.
- d. **MySQL** - is a database management system and a database is a structured collection of data developed by the Open-Source Community
- e. **MS SQL** – is a database management system and a database is a structured collection of data developed by Microsoft
- f. **Oracle** - is a database management system and a database is a structured collection of data developed by Oracle Corporation