

COURSE OUTLINE

MSFT-833

Implementing a Database on Microsoft SQL Server 7.0

3 Semester Hours

HOWARD COMMUNITY COLLEGE

Description

This course provides students with the technical skills required to implement a database solution with Microsoft® SQL Server™ client/server database management system version 7.0.

Prerequisite: MSFT-832. (3 hours lecture, 1 hour lab)

Overall Course Objectives

Upon completion of this course, the student will be able to:

1. Describe the elements of Microsoft SQL Server 7.0 and the environments in which it can operate.
2. Describe the elements of the Transact-SQL language.
3. Describe and configure the data storage architecture of SQL Server.
4. Create and manage files, file groups, databases, tables, and transaction logs.
5. Enforce data integrity using constraints, defaults, and rules.
6. Plan for appropriate use.
7. Create and maintain indexes.
8. Write queries that retrieve and modify data using joins and subqueries.
9. Write queries that summarize data.
10. Manage locking options and transactions to ensure data concurrency and recoverability.
11. Create views of data.
12. Design and create stored procedures.
13. Design and create triggers.
14. Work with distributed data.

Major Topics

- I. SQL Server Overview
- II. Overview of Transact-SQL
- III. Creating Databases
- IV. Implementing Data Integrity
- V. Planning and Creating Indexes
- VI. Querying Multiple Tables
- VII. Advanced Query Techniques
- VIII. Summarizing Data
- IX. Managing Transactions and Locks
- X. Implementing Views
- XI. Implementing Stored Procedures
- XII. Implementing Triggers
- XIII. Working with Distributed Data

About Microsoft Curriculum at HCC

When a student takes a Microsoft course at HCC, that student usually receives more instruction time than they would receive in other formats. Therefore, while taking Microsoft courses at HCC, the student may expect not only instruction from Microsoft materials but additional academic and practical exercises and course work to better equip the student not only for the corresponding certification exam but for eventual utilization in their professional endeavors.

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include two quizzes or exams and one lab activity.

Other Course Information

This course is a Network Administration core course.

This course is also intended for students who wish to become a Microsoft Certified Systems Engineer (MCSE).