



Understanding SQL Scripting

Course Objective :

This two-day course will reach database professionals about using SQL (Structured Query Language) to access and manipulate database. Usage of SQL statements to add, delete, insert, retrieve and update data in a SQL database will be covered.

Prerequisite:

No prerequisite required.

Certificate Of Attendance :

Certificate Of Attendance will be awarded to students completing the course achieving minimum 75% attendance.

Training Methodology & Materials:

- Practical case study sessions to enhance concept.
- Well-designed lab sessions to enhance further understanding of the courseware.

Training Duration:

Full-Time : 2 days Time : 9am to 5pm
Part-Time : 4 sessions Time : 6.30pm to 10.00pm (twice a wk)

Course Fee :

Course Fee : S\$399
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Detailed Course Outline

1. SQL Fundamentals of Querying

- 1.1. Introduction to relational databases
- 1.2. Introduction to SQL
- 1.3. Introduction to the SQL SELECT statement, SELECT All Columns, Result Sets
- 1.4. SQL Select Distinct statement
- 1.5. SQL Where clause, Using Quotes and Like condition
- 1.6. Selecting specific rows
- 1.7. The Insert INTO statement
- 1.8. Insert a new row, insert Data in specified columns
- 1.9. SQL Update Statement, update one column & multiple columns in a row
- 1.10. SQL Delete Statement, delete a row & multiple rows
- 1.11. SQL Sorting (Sort by)
- 1.12. Working with other operators
- 1.13. SQL And & Or
- 1.14. SQL In
- 1.15. SQL Between...And
- 1.16. SQL Alias
- 1.17. SQL Join and Keys
- 1.18. SQL Select Examples
- 1.19. Calculating data
- 1.20. Multi-table queries

2. Connecting Database from External Sources

- 2.1. Methods of Accessing Data
- 2.2. Working with Access
- 2.3. Working with other DAO databases
- 2.4. Querying a database using SQL Server 2000
- 2.5. Working with Microsoft Excel Data
- 2.6. Query Data from Excel

3. SQL Advanced Querying

- 3.3. Querying with unions and advanced joins
- 3.4. Querying with subqueries
SQL Union and Union ALL
- 3.5. SQL Create Database, Table, and Index
- 3.6. SQL Drop Index, Table and Database
- 3.7. SQL ALTER TABLE
- 3.8. SQL Functions
- 3.9. Grouping data - SQL GROUP BY and HAVING
- 3.10. Filtering grouped data
- 3.11. SQL SELECT INTO Statement
- 3.12. SQL Backup Copy
- 3.13. Manipulating tables and views - SQL Create View Statement
- 3.14. SQL Servers – RDBMS - Ensuring data integrity with transactions