

Oracle Course Content

Module-1: Introduction to DBMS

- Introduction to Database
- Terminologies in Database
- Introduction to File Management System
- Drawbacks for File Management System
- Advantages of Database Management System(DBMS)
- Importance of Structured Query Language(SQL)

Module-2: Environmental Setup

- Downloading Oracle Database Software
- Installing the Oracle Database Software
- Interacting with Database Using Command Line Interface tool.
- Interacting with Database using Graphical User Interface(GUI) Tools.
- Downloading & Installing MySQL Database Software.

Module-3: Database Commands

- Introduction to Database Commands
- DDL Commands
 - CREATE
 - DROP
 - TRUNCATE
 - RENAME

- DML Commands
 - INSERT
 - UPDATE
 - DELETE
- DQL / DRL Commands (SELECT)
- TCL Commands
 - COMMIT
 - ROLLBACK
- Importing Some Sample Databases

Module-4: Integrity Constraints

- Introduction to Data Integrity
- Primary Key
- Foreign Key
- Unique Key
- Composite key
- Not Null
- Check

Module-5: SQL Clauses

- Where
- Group by
- Having
- Order by

Module-6: SQL Operators

- Union
- Union All
- Intersect
- Minus
- Special Operators
 - IN, NOT IN
 - BETWEEN, NOT BETWEEN
 - LIKE, NOT LIKE
 - ISNULL, ISNOT NULL
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Module-7: SQL Functions

- Arithmetic Functions
- Character Functions
- Date Functions
- Aggregate Functions

Module-8: Sub Queries

- Introduction to Sub Queries
- Single Row Sub Query
- Multiple Row Sub Query
- Correlated Sub Query

Module-9: SQL Joins

- Introduction to Joins
- Types of SQL Joins
- Cartesian join/product
- Equi Join / Inner Join / Simple Join
- Outer Joins
- Self-Joins

Module-10: Other Discussions

- Database Sequences
- Database Views
- Database Indexing
- Creation and execution of DB Stored procedures
- Creation and execution of DB Stored Functions
- Stored Procedure (Vs) Stored Functions
- Interview Questions