SETC Training Corporate Logo

Oracle Training: SQL for Data Definition & Extraction (DBCOMP1, 4 jours)

Description

The course SQL for Data Definition & Extraction (Oracle Training) targets database management systems such as MySQL, Oracle, SQL Server, PostgreSQL. This course is designed to be a practical study into the management of a multi-platform database work environment. Though the focus will be on the Oracle platform, the content will be discussed in a platform generic way to allow practical application to SQL Server, MySQL and PostgreSQL environments. Part I of the course focusses on the essentials of the SQL language as it is applied to a variety of database platforms. This course will provide you with a comprehensive overview of the SQL language as it is defined by the ANSI standard.

Tarifs

- Tarification: $3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Relational Database Concepts

- Exploring the Structure of a Relational Database
- About Data and Metadata
- The Principle of Integrity: Entity, Domain and Referential
- Understanding Primary and Foreign Keys
- About Keys and Indexes
- SQL Architecture: How MySQL Interprets SQL Commands
- SQL Architecture: How Oracle Interprets SQL Commands
- SQL Architecture : How SQL Server Interprets SQL Commands
- SQL Architecture : How PostgreSQL Interprets SQL Commands
- The ANSI Standard and its Implementation in MySQL, Oracle, SQL Server and PostgSQL

Creating Tables

- The Need for Primary and Foreign Keys
- Creating Tables for MySQL and Oracle
- Adding Constraints to a Table
- Inserting Data - Fundamentals
- Retrieving Data - Fundamentals
- Deleting Data - Fundamentals
- Understanding Space Allocation

Retrieving Data

- Retrieving Data from a Table
- Sorting Data
- Filtering Data : Using Simple Clauses
- Filtering Data : Using Date and Time
- Filtering Data : Working with Strings
- Filtering Data : Using Logical Operators
- The INSERT Statement
- The UPDATE Statement
- The DELETE Statement

Retrieving Metadata

- The Importance of Metadata

Retrieving Metadata in MySQL
Retrieving Metadata in Oracle
Retrieving Metadata in SQL Server
Retrieving Metadata in PostgreSQL

Advanced Data Operations

Working with Aggregate Values
Retrieving from Multiple Tables - Inner Join
Retrieving from Multiple Tables - Outer Joins
About Sub-Queries
Correlated Sub-Queries

Indexing

Index Overview
SQL Server Index Architecture
Oracle Index Architecture
MySQL Index Architecture
PostgreSQL Index Architecture
About Indexes and Keys
Understanding Ordered and UnOrdered Indexes

Stored Procedures

Architectural Overview
Benefits of Stored Procedures
Creating Stored Procedures
Using Input and Output Parameters
Stored Procedures Optimization

Stored Procedures - Built-In Specifics

Using Oracle Built-in Stored Procedures for Administration Tasks
Using MySQL Server Built-in Stored Procedures for Administration Tasks
A Practical Administration Lab