

SQL language, SQL*Plus and SQL Developer interfaces

REFERENCE	COS
INTENDED PARTICIPANTS	This course is for all those working with Oracle 11g/12c. Knowledge of relational databases and programming concepts is helpful. Prior experience of Oracle is not necessary.
LEARNING OBJECTIVES	Using Oracle database 11g/12g to create powerful applications. Using SQL functions to retrieve and manipulate data efficiently. Creating and managing tables, views and database sequences. Establishing security and enhancing data integrity through roles and privileges. Controlling Oracle SQL*Plus and Oracle SQL Developer user interfaces. Definition of the work environment.
DURATION	3 days
DELIVERY PRICE	Contact Us

COURSE CONTENT

INTRODUCTION

- Oracle Presentation
- SQL in an RDBMS

SQL*PLUS

- The SQL*Plus connection
- Using SQL*Plus commands: SET, ACCEPT, DEFINE ...
- Customizing the SQL*Plus environment
- The setting for SQL*Plus
- The SPOOL file
- SQL script execution
- Variables Management in SQL*Plus

SQL DEVELOPER

- Using SQL Developer: launch, connection to the database
- Entering SQL Queries
- Updating Data
- SQL script execution
- Working with objects in a scheme

SELECT INSTRUCTION

- SELECT instruction structure
- Selection of rows and columns
- Sorting the result, the DISTINCT clause
- Different types of joints
- Set operators
- Subqueries
- Expressions and functions
- Group functions
- Using arithmetic operators
- Priority level of operators
- Viewing the structure of a table with the DESCRIBE command

DML (Data Manipulation Language)

- Insertion
- Update
- Delete
- Transaction management

DDL (Data Definition Language)

Different types of data

Creation of different objects (internal and external tables, views, sequences, clusters, indexes)

Synonyms

REGULAR EXPRESSIONS

Functions and conditions including regular expressions

Meta characters with regular expressions

A simple search using the function REGEXP_LIKE

Research models using the function REGEXP_INSTR

Substring extraction using the function REGEXP_SUBSTR

Substitution models using the function REGEXP_REPLACE

Using the function REGEXP_COUNT

MANAGEMENT OF CONFIDENTIALITY

System level: Connecting to ORACLE, authorization

Object-level: access type ...

PRACTICAL WORK

Immediate implementation through numerous practical exercises provides effective instruction.

Methods and best practices to program in SQL.

Feedback from SQL language specialists.