

Introduction into Databases and SQL Language in the Oracle

Course code: OFUN

Students learn basic skills needed for working with Oracle database. The course covers SQL fundamentals to retrieve, insert, update or delete data in database and fundamentals of procedural PL/SQL. Students get familiar with Oracle architecture and relational database concepts.

Who is the course for

IT Project Managers

System Analytics

Developers

Administrators

Technical Support Staff

What we teach you

- Introduction to relation databases
- Data modeling
- Purpose and benefits of ER Diagrams
- Fundamentals of Oracle architecture
- SQL fundamentals
- PL/SQL fundamentals
- Introduction to Object-oriented technology
- Workshop

Required skills

Familiarity with data processing concepts and techniques

Ability to use a graphical user interface (GUI)

Course Outline

Database management systems

What is database systems

Traditional database systems

Relational database systems

Data modeling

Oracle software life cycle

Conceptual data models

Data storage in relational databases, data normalization

Oracle architecture fundamentals

Why to understand the architecture

Logical, Physical and memory structures

Oracle 9i features

Oracle product family

SQL fundamentals

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What is SQL

SELECT statement

Data Definition Language (DDL)

Data Manipulation Language (DML)

Transaction Control Language (TCL)

Data Control Language (DCL)

Differences in SQL and SQL*Plus

PL/SQL fundamentals

What is PL/SQL

PL/SQL basics

Control structures in PL/SQL

Introduction to Object-oriented technology

OO basics

Object-Relations Database Management Systems

Workshop

Workshop

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