

# 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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