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ORACLE SQL TRAINING

ORACLE SQL TRAINING ONLINE AND CLASSROOM

This course is designed to give users an understanding of Oracle SQL and Oracle PL/SQL languages using Oracle's SQL*Plus and iSQL*Plus tools. The course covers SQL commands for DML, DDL, Query, and Transaction Control operations. Students are also introduced to procedural programming using PL/SQL. The course topics are applicable to all versions of Oracle through Oracle 10g.

ORACLE SQL COURSE MODULES

DATABASE DESIGN

- ✓ Database Models
- ✓ Codd's 12 Rules
- ✓ First Normal Form
- ✓ Beginnings
- ✓ Normalization
- ✓ Higher Order Normal Forms
- ✓ Some Introductory Terminology

ORACLE STANDARD INTERFACES

- ✓ SQL
- ✓ Command Line Interface
- ✓ The SQL Buffer
- ✓ SQL*Plus
- ✓ Viewing A Sample Table
- ✓ The Web-Based Interface
- ✓ Oracle Architecture
- ✓ The Graphical User Interface
- ✓ Describe
- ✓ Interfaces To Oracle

THE SAMPLE DATABASE

- ✓ The Entity Relationship Model
- ✓ ER Diagram For Sample Database
- ✓ Viewing Sample Data
- ✓ Entity Relationship Diagrams
- ✓ Creating The Sample Data
- ✓ Data Types Of The Sample Data
- ✓ The Sample Database

DATA DEFINITION LANGUAGE

- ✓ Categories Of SQL Statements
- ✓ The ALTER Command
- ✓ Modifying Table To Use Constraints
- ✓ Oracle Datatypes
- ✓ Integrity Constraints
- ✓ Checking Constraints
- ✓ The CREATE Statement
- ✓ Entity Integrity Constraints
- ✓ The Data Dictionary
- ✓ The DROP Command
- ✓ Referential Integrity Constraints

DATA MANIPULATION LANGUAGE

- ✓ DML Statements
- ✓ The INSERT Statement
- ✓ The UPDATE Statement
- ✓ The SELECT Statement
- ✓ The DELETE Statement
- ✓ More SQL*Plus Commands

TRANSACTION CONTROL

- ✓ Transactions
- ✓ Savepoints
- ✓ The SET TRANSACTION Command
- ✓ Command Classification

SQL OPERATORS

- ✓ Simple Selects
- ✓ BETWEEN Operator
- ✓ IS NULL And IS NOT NULL
- ✓ Comparison Operators
- ✓ The LIKE Operator
- ✓ ANY
- ✓ IN And NOT IN Operators
- ✓ Logical Operators
- ✓ ALL

SQL FUNCTIONS

- ✓ Introduction
- ✓ Miscellaneous Functions
- ✓ Date Functions
- ✓ The DISTINCT Keyword
- ✓ Mathematical Functions
- ✓ Conversion Functions
- ✓ Aliases
- ✓ String Functions
- ✓ Pseudo Columns

JOINING TABLES

- ✓ Joins
- ✓ Non-Equi Join
- ✓ Right Outer Join
- ✓ Cartesian Product
- ✓ Non-Key Join
- ✓ Left Outer Join
- ✓ Inner Joins
- ✓ Reflexive Join
- ✓ Full Outer Join
- ✓ Equi-Join
- ✓ Natural Join
- ✓ Oracle-Specific Syntax For Outer Joins
- ✓ Table Aliases
- ✓ Outer Joins

SET OPERATORS

- ✓ Introduction
- ✓ Union
- ✓ Intersect
- ✓ Selection Criteria
- ✓ Union All
- ✓ Minus

INTRODUCTION

- ✓ SQL Vs. PL/SQL
- ✓ A More Complete Picture
- ✓ Simple Exception Handling
- ✓ A Few Simple Examples
- ✓ Comments
- ✓ Advantages Of PL/SQL
- ✓ Saving Procedures
- ✓ Variable Substitution
- ✓ Assignments