



WILLPOWER

Technologies

Oracle 11g

SQL

Sub Language Commands

Data Definition Language (DDL)
Data Retrieval Language (DRL)
Data Manipulation Language (DML)
Transaction Control Language (TCL)
Database Security and privileges (DCL)

Introduction to SQL Database Objects

Oracle Pre Defined Data types
DDL Commands
Create, Alter, add, modify, drop column, Drop

Working With DML, DRL Commands
Operators Support
DML-insert, update, delete
DQL-SELECT stmt
Using Where clause
Comparison and Conditional Operators
Arithmetic and Logical Operators

Built-in Functions

Arithmetic functions, Character Functions,
Date Functions, Group Functions & General Functions

Grouping the result of a query

Using Group by and having clause of DRL
Statement, grouping sets
Using Order by clause

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Querying Multiple Tables

Joins –Equi join Cartesian Join,
Non-Equi Join, Left Outer Join, Right Outer
Join, Self Join

Working with Sub Queries

Nested Queries & Co-related sub queries
Special Operators-Exists, Any, Some, All Scalar Queries

Integrity Constraints

Importance of Data Integrity Rules
Applying Constraints on New & Existing tables
Working with different Integrity Constraints

Working with DCL, TCL Commands

Sharing Database objects-Grant, Revoke
Commit, rollback, savepoint
SQL Editor Commands, SQL Environment
Settings, SQL Reporting commands
Substitution operator (&<&&), SPOOL

Maintaining Database Objects

Working with views, Force Option
Materialized views, Inline Views
Working with Synonyms, Sequences
Working with Index and Clusters
Creating Cluster Tables, Implementing Locks
Row Level Locks, tables, Implementing Locks
Row Level Locks, Tables, Implementing Locks
Pseudo columns-rowid, rownum, level
E.F.Codd's Rules

PL/SQL

Introduction to Programming languages
Introduction to PL/SQL
The Advantages of PL/SQL
PL/SQL Architecture, PL/SQL, Data types
Variables, Constants, Comments
Using Built-in Functions
Conditional and Iteration Control Statements
Using SQL Commands in PL/SQL
USER Defined data types
Defining Cursors

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Explicit Implicit Cursors

Cursor for Loop

Cursor with Arithmetic Expressions

Cursor with Scalar Query

Cursor with Joins

Cursors With parameters

Locking Cursors

Cursor Variables

Exceptions handling

Pre-defined, user-defined&Non Pre –defined

Advanced PL/SQL

Procedures and Functions in PL/SQL

Sharing Sub Programs

Arguments Modes (IN, OUT&INOUT)

Defining packages

Removing Subprogram and Packages

Using Stored Functions in SQL Statements

Private & Public Sub Programs in Packages

Database Triggers-Row Level Triggers

Statement level Triggers

Instead of Triggers on views, DDL Triggers

Trigger Firing Sequence, Trigger auditing

Ref Cursors

Using Ref.Cursor in Procedures,

Functions and packages

Strong and Weak Ref Cursors

Advanced Version Features

File Input/Output

Using UTL_File package Built-ins

Implementing Object Technology

What is Object technology?

OOPS Features in Objects

Creation of Objects

Creating user Defined Data Types

Creating Object tables

Inserting Rows in a table Using Objects

Retrieving data from Object based tables

Calling a Method

Indexing Abstract Data type attributes

Applying triggers, Sharing Objects, Nested Objects

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Using LOBS

Large Objects (LOBS)
Creating tables with LOBS
Working with LOB values
Insert, Update & Delete in Lobs
Populating Lobs using DBMS_LOB Routines
Using B_FILE

Using Collections

Advantages of collections
Nested tables, VARRYING arrays
Creating tables using nested tables
Inserting, updating & deleting Nested
Table records
Nested tables in PL/SQL

Oracle Database Architecture

Introduction to Oracle Database Architecture
Physical Structures Logical Structures
DB Memory Structures (SGA, PGA) & background Process (SMON, PMON, etc)
2-Tier, 3-Tier, N-Tier Architecture, isql*Plus
Server Types –Dedicated, Distibuted Servers

Data processing and Data portioning

Serial processing, parallel processing
Data partitioning, Creating partition tables
Range, hash, Composite Partitions
Partition Indexes
Advantages of Partition Tables

Java Objects & SQLJ

Creating java Objects
Loading java classes into Database
Diff.between java with SQL and SQLJ
Iterators-Named, Positional
Using DML, DRL, DDL in SQLJ

Advanced Features

Returning into clause, bulk Collect, Bulk Bind
9i joins, New Date & General Functions
Analytical functions, Multiple Inserts
Merge Statement, Temporary tables
Autonomous transactions
Dynamic SQL
Enhancements to returning into

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Using Regular Expressions
Flash back Command
Purge, Recycle bin,
Data Pump
Virtual Columns
Read only Tables
Ross tab Views using and unpivot
Operators
Follows Clause
Compound Triggers

Introduction to Apps Tech

Duration: 45 Days Faculty: D.MURALI KRISHNA (9+YEARS EXPERIENCE)

Murali Krishna is handled corporate training also ..

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