

ORACLE COURSE SYLLABUS











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Oracle Course Syllabus

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SQL(Structured Query Language)

- Introduction To SQL
- Data Retrieval Techniques
- Working with DDL Commands
- Working with DML Commands
- Integrity Constraints
- Built In Functions
- Data Aggregation
- Importance Of Join
- Set Operators & Pseudo Columns
- Sub Queries
- Database Transactions & Security
- Design Of Schema Objects



PL/SQL (Procedural Language Extension To SQL)

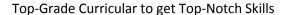
- ❖ Introduction To PL/SQL
- Creating & Using Cursors
- Understanding Exception Handling
- Creation Of Stored Procedures
- Creating & Using Functions
- Creating & Using Packages
- Triggers In PL/SQL
- Collections In PL/SQL

Structured Query Language (SQL) Introduction To SQL

- Introduction Database
- Understanding DBMS vs RDBMS
- Gone through SQL Standards
- Sub languages of SQL
- ❖ Difference between 10g vs 11g vs 12c
- Installation of 12c
- About SQL*Plus and use of developer tool
- Datatypes in Oracle
- Operators in Oracle
- Understanding Schema design and objects

Data Retrieval Techniques

- ❖ How to use select statement in different ways to retrieve records?
- Working with Column alias
- Working with Table alias
- Clauses and its types in oracle
 - a) Where clause
 - b) Having clause
 - c) From clause
 - d) Group by clause
 - e) Order by clause





- f) Using clause
- g) Constraint clause
- h) For update clause

Working With DDL Commands

- Table creation using CREATE statement
- Creating table from another table
- Dropping a table using DROP command
- Altering the column of a table
- Modifying the column datatype in a table
- Renaming the column of a table
- Renaming an entire table
- Using truncate command
- Difference between Delete and Truncate command

Working With DML Commands

- How to copy data from one table to another table?
- How to copy the structure alone from a table?
- Different types of inserting row to an existing table
- Updating any value of with in a record using UPDATE command
- Deleting a particular record from a table
- ❖ Using merge & insert all command [Implementation of Project 1]

Integrity Constraints

- How to declare column level constraints?
- How to declare row level constraints?
- How to add constraints to an existing table?
- Types of integrity constraints
- Not null
- Unique key
- Primary key
- Referential integrity
- Check integrity

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- How to enable and disable constraints?
- How to get information about constraints?

Built In Functions

- Understanding Single row functions
- How to use single row functions using dummy table?
- Types of single row functions
- String functions
- Date functions
- Mathematical functions
- Conversion functions
- Special functions
- Analytical functions
- ❖ Working with multi row functions [Implementation of Project 2]

Data Aggregation

- Working with aggregate function
- Count()
- ❖ Sum()
- ❖ Max()
- ❖ Min()
- ❖ Avg()
- Working with group by clause
- Working with having clause
- Difference between WHERE and HAVING clause

Importance Of JOIN

- Understanding joins and its uses
- Types of joins
- Equi join
- Non equi join
- Self join
- Outer join
- Left & Right outer join





- Full outer join
- Cross join [Implementation of Project 3]

Set Operators And Pseudo Columns

- How to use set operators in a single table content?
- Working with set operator types
- UNION
- UNION ALL
- ❖ INTERSECT
- MINUS
- Working with pseudo columns using the following
- ROWID
- **❖** ROWNUM

Sub Queries

- Importance of sub queries
- Using different types of sub queries
- Single row sub queries
- Multi row sub queries
- Nested queries
- Multi column sub queries
- Correlated sub queries
- ❖ Using inline views and scalar queries [Implementation of Project 4]

Database Transaction And Security

- Working with data query language using TCL
- Working with data control language commands
- Use of commit and rollback
- Use of savepoint and set transaction
- How to give system privileges to an user?
- How to invoke and revoke object privileges?
- How to create users and roles?



Design Of Schema Objects

- Creating and working with Views
- Working with Synonyms
- Creating Index and clusters
- Working with in materialized view
- Understanding sequences and its types [Implementation of Project 5]

PL/SQL (Procedural Language Extension to SQL) Introduction To PL/SQL

- Informal introduction to PL/SQL
- Advantages of PL/SQL
- Datatypes in PL/SQL
- Program structure of PL/SQL
- Embedding SQL statements
- Using conditional statements and loops

Creating And Using Cursors

- What is cursor?
- How to create cursor?
- Using cursors in PL/SQL
- How to create explicit cursor?
- Creation of for loop cursor
- What are cursor parameters?
- How to use for update clause?
- What is ref cursors?
- How to use implicit cursors?



Understanding Exception Handling

- What is an Exception?
- Describing Exception types
- Handling system defined exceptions
- Handling user defined exceptions?
- Sql code vs Sql errm
- Pragma exception_init

Creation Of Stored Procedures

- Creating procedures in PI/SQL
- Working with procedure parameters
- IN parameter
- OUT parameter
- ❖ INOUT parameter
- How to create procedures with cursors
- How procedures return records?
- What is Pragma autonomous transaction?

Creating & Using Functions

- Importance of function
- How to create functions?
- Difference between procedures and functions
- How to use inline functions?

Creating & Using Packages

- What is a Package?
- Reasons to use packages
- What is package specification?
- What is package body?
- How to instantiate package?
- How to initialize instantiated package?
- What are all the package state?

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Triggers In PL/SQL

- How to create triggers?
- Benefits of trigger
- How to trigger a trigger?
- Using DML trigger & DDL trigger
- How to audit database using triggers?
- What are database level trigger?

Collections In PL/SQL

- ❖ What is collection?
- How to use Varrays?
- Using nested tables
- How to use index by value?
- Listing types of collection methods.
- General overview and discussion about DBA Concepts

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