



Oracle

SYLLABUS

COVERAGE

- RDBMS Concept
- DDL (Data Definition Language) Statements
- DML (Data Manipulation Language) Statements
- Select Statement
- Single Row Function
- Multiple Row Functions
- Displaying Data from Multiple Tables
- Sub query
- Other database objects –Views, Synonym, sequence
- Set operator
- Oracle Architecture
- User control
- Advance SQL
- Introduction to PLSQL
- Anonymous PLSQL
- Named PLSQL Subprograms
- Triggers
- Advance PLSQL

SYLLABUS IN DETAILS

RDBMS Concept

- Basic Introduction and Technology Awareness
- 3 Layer Architecture
- Data Models
- Entity types
- Types of Keys
- Types of attributes
- ER Modeling
- Normalization
- Assignments
- Industry (MNCs) standard examples

DDL(Data Definition Language) Statement

- Introduction to SQL
- Types of Datatype
- Create ,Alter, Drop, Truncate commands
- Types of constraints (Primary key, Foreign key,

- Unique key, Not Null key, Check constraint)
- Assignments
- Industry (MNCs) standard examples

DML(Data Manipulation Language) statements

- Insert
- Update
- Delete
- TCl (Transaction control Statement) – Commit, Rollback , Savepoint
- Assignments
- Industry (MNCs) standard examples

Select Statement

- Simple select using from clause
- Where clause
- Using like operator

- Arithmetic operators
- Distinct Keyword
- Assignments
- Industry (MNCs) standard examples

Single Row Function

- Character Functions
- Date Functions
- Conversion functions
- Case Decode Function
- Assignments
- Industry (MNCs) standard examples

Multiple Row Functions

- Aggregate Function(Sum, Avg, Count, max, min, variance, stddev)
- Group by clause
- Having Clause
- Assignments
- Industry (MNCs) standard examples

Displaying Data from Multiple Table

- Inner join
- Right Outer join
- Left Outer Join
- Full Outer Join
- Assignments
- Industry (MNCs) standard examples
- **Sub query**
- Independent Sub query
- Correlated Sub query
- Assignments
- Industry (MNCs) standard examples

Other database objects –Views, Synonym, sequence

- Assignments
- Industry (MNCs) standard examples

Set operator

- Union
- Union All
- Minus
- Intersect
- Assignments Industry (MNCs) standard

examples

Quiz

- SQL quiz as per interview standard

Oracle Architecture

User control Advance SQL

- Merge Statement
- Connect by prior
- With clause
- Rownum
- Analytic functions(Rank ,dense rank,lag ,lead etc)
- Assignments
- Industry (MNCs) standard examples

Introduction to PLSQL

- PLSQL Architecture
- Use of PLSQL in industry

Anonymous PLSQL

- Types of Data type
- PLSQL Block
- Data type declaration
- Anchored declaration
- Conditional statements (if else)
- Looping (Loop, while, for)
- Using DML in PLSQL
- Exception Handling
- Cursor
- Assignments
- Industry (MNCs) standard examples

Named PLSQL Subprograms

- Local Procedure
- Local Function
- Stored Procedure
- Stored Function
- Assignments
- Industry (MNCs) standard examples
- **Triggers**
- Statement Level Trigger
- Row level trigger
- Instead of trigger
- Assignments

- Industry (MNCs) standard examples

Advance PLSQL

- Package
- Collection variable (Nested Table, Varray, Associative array)
- Ref Cursors
- Bulk Collect
- Native SQL
- Dynamic SQL
- Assignments
- Industry (MNCs) standard examples

Quiz

- SQL quiz as per interview standard