ORACLE 11G

Chapter-1

- Introduction
- Definition of Database
- Definition of DBMS
- FMS
- Advantage of DBMS over FMS
- DB Life Cycle
- DB Design

Chapter-2

- Data Models and types of data models
- Features of RDBMS
- Client / server Architecture
- Oracle versions
- Oracle Installation
- Oracle architecture

Chapter-3

- E.F.Codd Rules
- Normalization

SQL

Chapter-4

- Introduction to SQL
- SQL standards
- SQL sublanguages
- Datatypes in Oracle

- Operators in Oracle
- About Table Creation
- Inserting Data
- Data Retrieval
- Clauses
- DML Commands
- DDL commands:

Chapter-5

- Integrity Constraints :
- Types of Integrity Constraints
- Declaring Constraints
- Adding Constraints to an Existing table
- Enabling & Disabling Constraints
- Getting information about Constraints

Chapter-6

- Built-in Functions
- Single Row functions
- String functions
- Date functions
- Mathematical functions
- Conversion functions
- Special functions
- Analytical functions
- Multi Row functions

Chapter-7

- Joins
- Types of Joins
- Equi Join
- Non-Equi Join

- Self Join
- Outer Join
- Left Outer
- Right Outer
- Full Outer
- SET operators
- Psuedo columns

Chapter-8

- Subqueries :
    - Importance of Subqueries
    - Types of Subqueries
- Single row subqueries
- Multi row subqueries
- Nested queries
- Multi column subqueries
- Co-related subqueries
    - In-line views
    - Scalar queries

Chapter-9

- Database Transactions :
    - commit command
    - rollback command
    - savepoing command
- Database Security :
    - System privileges and Object privileges
    - Granting and revoking privileges
    - Creating users and roles

Chapter-10

- Schema objects :
    - Views

    - Synonyms
    - Indexes
    - Clusters
    - Materialized views
    - Sequences
    - Types
- About Locks & Isolations Levels
- About Table partitioning
- Hierarchical queries
- **Real Time Project will be explained.**
- **Assignments will be given during the sessions.**