

VEER NARMAD SOUTH GUJARAT UNIVERSITY
B.C.A. Semester - III
Effective from year 2010-11
Paper – 302

Paper: Relational Database Management System

1. Codd's law for full functional relational database management system
2. Introduction to Oracle Tools
 - 2.1 Export and Import SQL * Loader
 - 2.2 Oracle DBA function like Granting & Revoking Permission (ALL and Public Argument GRANT and Revoke Option)
 - 2.3 SQL Plus
3. Interactive SQL
 - 3.1 Oracle Data Types
 - 3.2 Oracle DDL & DML
(Create Table, Alter Table, Update Table with Multiple Columns, Updating to NULL Values, Drop Table, Declaring constant Like Primary Key Foreign Key, Multiple Column Foreign Key Foreign Key Restriction etc)
 - 3.3 Operators
 - 3.4 Oracle Functions
 - 3.5 Range Searching
 - 3.6 Pattern Matching
 - 3.7 Manipulating Dates
 - 3.8 Joining (Joining table through Referential integrity, Equiv Join, Join of Two Tables, Joining a table to itself)
 - 3.9 Sub Queries (DISTINCT with sub queries, predicates with Sub queries, Aggregate Function in sub queries, HAVING Clause, EXISTS Operator)
 - 3.10 Using Unions, Intersection and Minus Clause
 - 3.11 Indexes (Create Index, Drop Index, Types of Index)
 - 3.12 Views (Updating Views, Group views and join views and sub queries, Changing Values through view)
 - 3.13 Sequences
 - 3.14 Nested Tables & Var Arrays
4. PL/SQL
 - 4.1 PL SQL Block Structure
 - 4.1.1 Using Variable, Constant and Data Type
 - 4.1.2 User Defined Records
 - 4.1.3 Assigning Values to Variables
 - 4.1.4 Control Statements (IF... THEN Statement, LOOP, FOR... LOOP, WHILE loop)
 - 4.2 Oracle Transaction
 - 4.3 Concurrency Control in Oracle
 - 4.4 Cursor (Explicit, Implicit)
 - 4.5 Error handling in PL/SQL
 - 4.5.1 Exceptions
 - 4.5.2 User Define Exception
 - 4.5.3 Unhandled Exceptions
 - 4.5.4 Pragma Exception

5. Stored Procedures ,Stored functions & Package

6. Database Trigger

Reference Books

1. Goerge Koch:the Complete Reference-Oracle Press

2. Oracle 9 PL/SQL Programming –Oracle Press

3. Davidd C Kreines:Oracel SQL The Essential Reference O'Reilly

4. Oracle 9 PL/SQL Programming-Ivan Bayross-BPB Publication

5. Oracle 9-P.S.Despande-Dremtech Press

6. Oracle SQL * Loader The Definitive Guide-Gennik & Mishra SPD O Relly

7. Oracle PL/SQL Programming-Feuerstein & Periby-SPD O Reilly

8. Starting Out with Oracle-Day Slyke-DreamTech Press