4BCA2 – ORACLE RDBMS

UNIT-I

Oracle product details, Different Data base model , RDBMS components – Kernel, Data dictionary, Client/Server Computing and Oracle, Overview of oracle architecture – Oracle files, System and User process, Oracle Memory, System data base object, Protecting data

UNIT-II

Oracle data types, Working with Tables.Data Constraints, Column level & table Level Constraints.

Defining different constraints on the table Defining Integrity Constraints in the ALTER TABLE Command. Select Command, Logical Operator, Range Searching, Pattern Matching,Oracle Function, Grouping data from Tables in SQL, Manipulation Data in SQL

Joining Multiple Tables (Equi Joins),Joining a Table to itself (self Joins),Subqueries Union, interesect & Minus Clause,Creating view,Renaming the Column of a view,Granting Permissions, -Updation, Selection, Destroying view

UNIT-III

Creating Indexes.Creating and managing User, PL/SQL, SQL & PL/SQL differences, block structure, variables, constants, datatype, Assigning database values to variables, Select ... INTO, Using cursors

UNIT-IV

Error handling, Built-in exceptions, User defined exceptions, The Raise-Application-error procedure, Oracle transaction, Locks, Implicit and Explicit locking. Procedures & Functions - Concept, creation, execution, advantages, syntax, deletion.

UNIT-V

Triggers - Concept, use, how to apply database triggers, type of triggers, syntax, deleting.
Functions of Oracle DBA.
Create Database, Create tablespace.
Import & Export
Oracle backup & recovery

Text & Reference Books :

- Ivan Bayross, **"SQL, PL/SQL", BPB PUBLICATIONS"**
- Liebschuty, **"THE ORACLE COOK BOOK",** BPB Publication
- Michael Abbey, Michael J.Corey, **"ORACLE A BEGINNERS GUIDE".** TMH Publication
- **Oracle Unleashed** (Chapter 1,2,3,4,5 and 9)