

CAP280:DATABASE MANAGEMENT SYSTEMS-LABORATORY

L:0 T:0 P:3 Credits:2

Course Outcomes: Through this course students should be able to

- Develop the Relational Database Model to understand the Logical and Physical aspects of the DBMS architecture.
- use the functions of the Oracle Database Server and Oracle Database Client
- construct maintain and manipulate an Oracle Database
- apply and recognize data dictionary
- Validate database statistics in relation to performance and integrity of the database

List of Practicals / Experiments:

SQL Statements

- Implementation of DDL Statements
- Implementation of DCL & DML Statements

SQL Constraints

- Implementation of Integrity Constraints
- Implementation of Null and Default Constraint
- Implementation of different types of Keys
- Implementation of JOINS(Inner, Left, Right, Full, Self)

SQL Functions

- Implementation of various In-built Functions
- Implementation of Numeric and Character Functions

SQL Query Commands

- To run the various nested queries using commands of SQL
- To run the various correlated queries using commands of SQL

Working with SQL Views and Triggers

- To create Views in PL/SQL
- Implementation of Cursors and Triggers in PL/SQL

Text Books:

1. SQL, PL/SQL THE PROGRAMMING LANGUAGE OF ORACLE by IVAN BAYROSS, BPB PUBLICATIONS

References:

1. DATABASE SYSTEM CONCEPTS by H. F. KORTH & A. SILBERSCHATZ, MCGRAW HILL EDUCATION
2. DATABASE SYSTEMS CONCEPTS by ABRAHAM SILBERSCHATZ, HENRY F. KORTH, S. SUDARSHAN, MCGRAW HILL EDUCATION