Course No.	Course Name	L-T-P - Credits	Year of Introduction
CS333	APPLICATION SOFTWARE DEVELOPMENT LAB	0-0-3-1	2015

Pre-requisite

1. **CS208** Principles of Database Design

Course Objectives

1. *To introduce basic commands and operations on database.*
2. *To introduce stored programming concepts (PL-SQL)using Cursors and Triggers .*
3. *To familiarize front end tools of database.*

List of Exercises/Experiments: (Exercises/experiments marked with * are mandatory from each part. Total 12 Exercises/experiments are mandatory)

1. Creation of a database using DDL commands and writes DQL queries to retrieve information from the database.
2. Performing DML commands like Insertion, Deletion, Modifying, Altering, and Updating records based on conditions.
3. Creating relationship between the databases. *
4. Creating a database to set various constraints. *
5. Practice of SQL TCL commands like Rollback, Commit, Savepoint.
6. Practice of SQL DCL commands for granting and revoking user privileges.
7. Creation of Views and Assertions *
8. Implementation of Build in functions in RDBMS *
9. Implementation of various aggregate functions in SQL *
10. Implementation of Order By, Group By& Having clause. *
11. Implementation of set operators, nested queries and Join queries *
12. Implementation of various control structures using PL/SQL *
13. Creation of Procedures and Functions *
14. Creation of Packages *
15. Creation of database Triggers and Cursors *
16. Practice various front-end tools and report generation.
17. Creating Forms and Menus
18. Mini project (Application Development using Oracle/ MySQL using Database connectivity)*

a. Inventory Control System.
b. Material Requirement Processing.
c. Hospital Management System.
d. Railway Reservation System.
e. Personal Information System.
f. Web Based User Identification System.
g. Timetable Management System.
h. Hotel Management System.

Expected Outcome

Student is able to

1. *Design and implement a database for a given proble\ \ \ \m using database design principles.*
2. *Apply stored programming concepts (PL-SQL) using Cursors and Triggers.*
3. *Use graphical user interface, Event Handling and Database connectivity to develop and deploy applications and applets.*
4. *Develop medium-sized project in a team.*