



VISHNU INSTITUTE OF TECHNOLOGY:: BHIMAVARAM

(AUTONOMOUS)

Approved by AICTE, Accredited by NAAC-A++, NBA & Affiliated to JNTUK, Kakinada

Year/Semester	II B. Tech/ I Sem	L	T	P	C
Regulation Year	2020-21	0	0	3	1.5
Subject	DATABASE MANAGEMENT SYSTEMS LAB				
Branch	CSE, IT, AI & DS				

Course Objectives:

The objective of this lab is to teach the students how to store and retrieve data from database using query languages. In addition, the students should be able to enforce various integrity constraints on the database data.

List of Experiments:

1. Creation, altering and dropping of tables and inserting rows into a table (use constraints while creating tables) examples using SELECT command.
2. Queries (along with sub Queries) using ANY, ALL, IN, EXISTS, NOTEXISTS, UNION, INTERSECT, Constraints.
3. Queries using Aggregate functions, GROUP BY, HAVING and Creation and Dropping of Views.
4. Queries using Conversion functions, String functions, Date functions
5. i) Creation of simple PL/SQL program which includes declaration section, executable section and exception –handling
ii) Insert data into student table and use COMMIT, ROLLBACK and SAVEPOINT in PL/SQL
6. Develop a program that includes the features NESTED IF, CASE and CASE expression. The program can be extended using the NULLIF and COALESCE functions.
7. Program development using WHILE LOOPS, numeric FOR LOOPS, nested loops using ERROR Handling, BUILT –IN Exceptions, USER defined Exceptions, RAISE-APPLICATION ERROR.
8. Programs development using creation of procedures, passing parameters IN and OUT of PROCEDURES.

9. Program development using creation of stored functions, invoke functions in SQL Statements and write complex functions.
10. Program development using creation of package specification, package bodies, private objects, package variables and cursors and calling stored packages.
11. Develop programs using features parameters in a CURSOR, FOR UPDATE CURSOR, WHERE CURRENT of clause and CURSOR variables.
12. Develop Programs using BEFORE and AFTER Triggers, Row and Statement Triggers and INSTEAD OF Triggers