14CSL41 DATABASE MANAGEMENT SYSTEMS LABORATORY

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PREREQUISITE:

14CSL41 - Problem solving and Programming

LIST OF EXPERIMENTS /EXERCISES

1. Data definition language, commands, integrity constraints
2. Data manipulation language, Data control language commands and TCL commands
3. Nested queries and join operations
4. Views and index
5. PL/SQL statements
6. Cursors
7. Triggers
8. Procedures and functions
9. Embedded SQL
10. Design and implementation of banking system
11. Mini project: (Application Development using Oracle/ SQL SERVER / MYSQL)
> Inventory Control System
> Hospital Management System
> Railway Reservation System
> Web Based User Identification System
> Hotel Management System
> Student Information System
> Library Information System

REFERENCES / MANUALS / SOFTWARE:

1. Front End : Microsoft Visual Studio 6.0, Microsoft .NET Framework SDK v2.0, Java
2. Back End : ORACLE / SQL SERVER / MYSQL

COURSE OUTCOMES (COs)

At the end of this course, student will be able to:

CO	Description
CO1 :	Develop SQL commands to create and manipulate databases
CO2:	Execute queries using concepts of embedded query languages
CO3:	Solve real world problems using database concepts

III. MAPPING OF COURSE OUTCOMES (COs) TO PROGRAM OUTCOMES (POs)

3	Substantial	2	Moderate	1	Slight

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	1	1					1	2		3	1
CO2	3	2	1	1	1					1	2		3	1
CO3	3	2	1	1	1					1	2		3	1
Average	3	2	1	1	1					1	2		3	1

IV. COURSE DELIVERY METHODS

Teaching Methodology	Assessment tools
• Use of Black board to explain the DBMS commands and Integrity constraints concept. • Demonstrating simple cursor programs and trigger • Practical realization • Provoking Questions and Discussion	• Conduct of experiment • Observation • Record • Viva Voce • Model practical examinations

V. ASSESSMENT OF COURSE OUTCOMES

CO1	Develop SQL commands to create and manipulate databases	
Delivery methods	• Blackboard explanation for DDL,DML,DCL and TCL • Demonstration of DDL,DML, DCL and TCL commands.	
Assessment methods/Period of Assessment	• Regular evaluation • Model Exam	• During lab hours • End of semester
Sample Focus Questions	1. Display the attribute values of a table in a particular range.	III. Applying
	2. Apply possible built in functions in a banking database.	III.Applying
	3. Design a program to implement various types of Nested queries and join operations.	III. Applying

CO2	Execute queries using concepts of embedded query languages	
Delivery methods	• Blackboard explanation for cursor and trigger concepts. • Demonstration of simple programs on cursor and trigger concepts.	
Assessment methods/Period of Assessment	• Regular evaluation • Model Exam	• During lab hours • End of semester
Sample Focus questions	1. Develop a program to generate a bill using explicit cursor.	III – Applying
	2. Develop a program to implement the following trigger: Inserting new record in existing table updates in another table after inserting record.	III - Applying

CO3	Solve real world problems using database concepts	
Delivery methods	• Blackboard explanation on the creation of bank application and library management using package. • Demonstration of bank application and library management using package.	
Assessment methods/Period of Assessment	• Regular evaluation • Model Exam	• During lab hours • End of semester
Sample Focus questions	1. Design a program to implement banking application.	III - Applying
	2. Develop a program to implement library management system using cursor.	III - Applying