All India Shri Shivaji Memorial Society's

Institute of Information Technology

DEPARTMENT OF COMPUTER ENGINEERING

DBMS LAB

List of Experiments

	Lab No. Name of Subject : DBMS Lab Class:T.E.ComputerI/II				
Sr. No.	**Experiment Name**	**Equipment/ Software required**	**CO**	**PO**	**PSO**
	Group A: Database Programming SQL,PL/SQL				
1	Study of Open Source Relational Databases : MySQL	Open source operating system- Fedora 21**.** MySQL	CO302.2	1,2,3,9	1,2
2	Design and Develop SQL DDL statements which demonstrate the use of SQL objects such as Table, View, Index, Sequence, Synonym	Open source operating system- Fedora 21**.** MySQL	CO302.2	1,2,3,9	1,2,
3	Design at least 10 SQL queries for suitable database application using SQL DML statements: Insert, Select, Update, Delete with operators, functions, and set operator.	Open source operating system- Fedora 21**.** MySQL	CO302.2	1,2,3,9	1,2
4	Design at least 10 SQL queries for suitable database application using SQL DML statements: all types of Join, Sub-Query and View.	Open source operating system- Fedora 21**.** MySQL	CO302.2	1,2,3,9	1,2

DBMS LAB

5	Unnamed PL/SQL code block: Use of Control structure and Exception handling is mandatory. Write a PL/SQL block of code for the following requirements:- Schema: 1. Borrower(Rollin, Name, DateofIssue, NameofBook, Status) 2. Fine(Roll_no,Date,Amt) a) Accept roll_no & name of book from user. b) Check the number of days (from date of issue), if days are between 15 to 30 then fine amount will be Rs 5per day. c) If no. of days>30, per day fine will be Rs 50 per day & for days less than 30, Rs. 5 per day. d) After submitting the book, status will change from I to R. e) If condition of fine is true, then details will be stored into fine table. Frame the problem statement for writing PL/SQL block inline with above statement.	Oracle 11g	CO302.2	1,2,3,9	1,2

DBMS LAB

6	Cursors: (All types: Implicit, Explicit, Cursor FOR Loop, Parameterized Cursor) Write a PL/SQL block of code using parameterized Cursor, that will merge the data available in the newly created table N_RollCall with the data available in the table O_RollCall. If the data in the first table already exist in the second table then that data should be skipped. Frame the separate problem statement for writing PL/SQL block to implement all types of Cursors inline with above statement. The problem statement should clearly state the requirements.	Oracle 11g	CO302.2	1,2,3,9	1,2

DBMS LAB

7	PL/SQL Stored Procedure and Stored Function. Write a Stored Procedure namely proc_Grade for the categorization of student. If marks scored by students in examination is <=1500 and marks>=990 then student will be placed in distinction category if marks scored are between 989 and900 category is first class, if marks 899 and 825 category is Higher Second Class Write a PL/SQL block for using procedure created with above requirement. Stud_Marks(name, total_marks) Result(Roll,Name, Class) Frame the separate problem statement for writing PL/SQL Stored Procedure and function, inline with above statement. The problem statement should clearly state the requirements	Oracle 11g	CO302.2	1,2,3,9	1,2
8	Database Trigger (All Types: Row level and Statement level triggers, Before and After Triggers). Write a database trigger on Library table. The System should keep track of the records that are being updated or deleted. The old value of updated or deleted records should be added in Library_Audit table. Frame the problem statement for writing Database Triggers of all types, in-line with above statement. The problem statement should clearly state the requirements.	Oracle 11g	CO302.2	1,2,3,9	1,2

DBMS LAB

	Group B:-Large Scale Database				
1	Study of Open Source NOSQL Database: MongoDB (Installation, Basic CRUD operations, Execution)	MongoDB	CO302.6	1,3,5,9,10,12	1,2,3
2	Design and Develop MongoDB Queries using CRUD operations. (Use CRUD operations, SAVE method, logical operators)	MongoDB	CO302.6	1,3,5,9,10,12	1,2,3
3	Implement aggregation and indexing with suitable example using MongoDB.	MongoDB	CO302.6	1,3,5,9,10,12	1,2,3
4	Implement Map reduces operation with suitable example using MongoDB.	MongoDB	CO302.6	1,3,5,9,10,12	1,2,3
5	Design and Implement any 5 query using MongoDB	MongoDB	CO302.6	1,3,5,9,10,12	1,2,3
6	Create simple objects and array objects using JSON	MongoDB	CO302.6	1,3,5,9,10,12	1,2,3
	Group C :- Mini Project : Database Project Life Cycle				
1	Write a program to implement MongoDB database connectivity with PHP/ python/Java Implement Database navigation operations (add, delete, edit etc.) using ODBC/JDBC.	MongoDB	CO302.6	1,2,3,4,5,9,10,12	1,2,3
2	Implement MYSQL/Oracle database connectivity with PHP/ python/Java Implement Database navigation operations (add, delete, edit,) using ODBC/JDBC.	MYSQL	CO302.2	1,2,3,4,5,9,10,12	1,2,3

Subject Teacher **H.O.D.**

Mrs. S. Pimpalkar **Dr. Mrs. S. N. Zaware**

Mr. Chetan N.Aher