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GROUP-A

EXPERIMENT NAME	Perform Date	Submission Date	Page No.	Sign
1. Decide a case study related to real time application in group of 2-3 students and formulate a problem statement for application to be developed. Propose a Conceptual Design using ER features using tools like ERD plus, ER Win etc. (Identifying entities, relationships between entities, attributes, keys, cardinalities, generalization, specialization etc.) Convert the ER diagram into relational tables and normalize Relational data model.				
2. a) Design and Develop SQL DDL statements which demonstrate the use of SQL objects such as Table, View, Index, Sequence, Synonym, different constraints etc. b) Write at least 10 SQL queries on the suitable database application using SQL DML statements.				
3. Write at least 10 SQL queries for suitable database application using SQL DML statements.				
4. a) Suggested Problem statement: Consider Tables: 1. Borrower(Roll_no, Name, DateofIssue, NameofBook, Status) 2. Fine(Roll_no,Date,Amt) b) Write a PL/SQL code block to calculate the area of a circle for a value of radius varying from 5 to 9. Store the radius and the corresponding values of calculated area in an empty table named areas, consisting of two columns, radius and area.				
5. Write a Stored Procedure namely proc_Grade for the categorization of student. If marks scored by students in examination is <=1500 and				

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marks>=990 then student will be placed in distinction category if marks scored are between 989 and 900 category is first class, if marks 899 and 825 category is Higher Second Class.				
6. 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.				
7. 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				
8. Write a program to implement MySQL/Oracle database connectivity with any frontend language to implement Database navigation operations (add, delete, edit etc.)				

GROUP-B

EXPERIMENT NAME	Perform Date	Submission Date	Page No.	Sign
1. Design and Develop MongoDB Queries using CRUD operations. (Use CRUD operations SAVE method, logical operators etc.).				
2. Design and Develop MongoDB Queries using aggregation and indexing with suitable example using MongoDB.				
3. Implement Map reduces operation with suitable example using MongoDB.				
4. Write a program to implement MongoDB database connectivity with any frontend language to implement Database navigation operations (add, delete, edit etc.)				