

- 1) Design and Develop SQL DDL statements which demonstrate the use of SQL objects such as Table, View, Index, Sequence, Synonym
- 2) Write at least 10 SQL queries on the suitable database application using SQL DML statements
- 3) 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.
- 4) 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 and 900 category is first class, if marks 899 and 825 category is Higher Second Class
- 5) Cursors: Write a PL/SQL block of code using parameterized Cursor, that will merge the data available in the newly created table Cust_New with the data available in the table Cust_Old. If the data in the first table already exist in the second table then that data should be skipped.
- 6) -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.
- 7) Design and Develop MongoDB Queries using CRUD operations. (Use CRUD operations, SAVE method, logical operators)
- 8) Implement aggregation and indexing with suitable example using MongoDB
- 9) Implement Map reduces operation with suitable example using MongoDB.