

1. a) Create an employee database table, add constraints (primary key, unique, check, Not null), insert rows, update and delete rows using SQL DDL and DML commands.
b) Write a PL SQL programs to hike the employee salary, those who are all working under the production department by using where clause.
2. a) Create a set of tables for student database, add foreign key constraints and incorporate referential integrity.
b) Write PL SQL Triggers for insertion, deletion operations in a student database table.
3. a) Write a query to display all books details related to 'Database Management Systems' by using where clause.
b) Write a PL SQL Trigger program to update books details in library management system after purchasing books.
4. a) Create a Customer, Saving_account, Loan_account table in banking database by using DDL and DML commands
b) Write a procedure to insert 50 records for each table in above banking database.
- 5 a) a) Create a student table, subject_ mark table, result table using DDL, DML commands and also compute the minimum, maximum, total, average marks in the above database.
b) Write a user defined function to update and release the student's result with percentage.
- 6 a) Create railway reservation database using DDL, DML commands and also display the train information using sub queries.
b) Write PL SQL Triggers to display available seats after a successful reservation and also display the available seats before reservation.
- 7 a) Create an airline reservation database using DDL and DML commands and display the results after applying join operation to combine business class and economic class passenger.
b) Write a procedure to avail reduction of flight fare while reserving tickets.
- 8 a) Create a database for toy manufacturing company and display the products based on the cost using having clause.
b) Write a procedure to insert and update the records in the above database.
- 9 a) Create and insert records in student table and course table and also display the records using different types of join operation.
b) Write a procedure to display month's name while passing the month as number parameter. (Example: if pass parameter as 1 it should display as January.)

10 a) Write a DCL command to allow the user to create, insert, update and delete operation and also disallow the particular user to perform delete operation.

b) Create XML database to conduct online quiz and declare the quiz results.

11 a) Write and execute complex transaction in a larger database and also realize TCL commands.

b) Create Document, column and graph based data using NOSQL database tools.

12 Develop GUI based application software for Hostel Management.

13 Develop the application for an EMart Grocery Shop.

14 Develop an application for small finance corporation.

15 Develop software for Eservices in Revenue department.

16 Create software for society financial management.

17 Create software for property management in eMall.

18 Create software for tourism management systems.

19 Develop the application software for any retail business.

20 Develop the application software for online trading systems.