EXERCISE 3

Date: 14-09-2020

Q1. **Create a table called EMP with the following structure.**

Name	Type
EMPNO	INT
EFNAME	VARCHAR
ELNAME	VARCHAR
JOB	VARCHAR
DEPTNO	INT
ECITY	VARCHAR
SAL	FLOAT
MANAGERNAME	VARCHAR
MANAGERNO	INT

1. Implement the above schema enforcing primary key and other constraints and insert 10 records into each table.
2. List all the employees Job wise if JOB is null order by DEPT using CASE construct.
3. Count the total records in the emp table.
4. Find how many job titles are available in an employee table.
5. Calculate the total and average salary amount of the emp table
6. Determine the max and min salary and rename the column as max_salary and min_salary.
7. What is the difference between maximum and minimum salaries of employees in the organization?
8. Find the sum of the salaries of all employees of the 'Research' department as well as the minimum salary, maximum salary and the average salaries in this department
9. Count the number of distinct salary values in the table
10. Retrieve the name of employees who do not have supervisors (Manager Name can be null)
11. For each department that has more than 5 employees retrieve the department no, and the number of employees, who are making more than 700000 salary.
12. Query to display the list of employees who are not managers.
13. Query to display the list of employees who are also managers

14. Write a query to display the managers who are having more than one employee under his supervision with the following details Emp No, Emp First Name, Department number

Q2. Create the following tables

Borrower (customer-name, bankno loan-number, Amount)
Depositor (customer-name, bankno, account-number, Amount)
Customer (customer-name, street, customer-city)
Bank(bankno, Bankname, city, street)

1. Implement the above schema and insert 5 records into each table.

2. List all the customers who have either an account or a loan or both
3. Find the names of all customers who have an account but not a loan.
4. Find the name of customers having having loan whose city is 'Trichy'

5. List all the employees who has loan amount > 1000000 with his details and his bank details

6. List all the customers whose city and its bank city is same

7. Find the bank who has given maximum loan amount than all other banks

8. Delete the records for the particular customer who have either loan, account and his customer details.