PostGreSQL

Questions

- Ques.1. Write an SQL query to fetch the Empld and FullName of all the employees working under Manager with id '101'.
- Ques.2. Write an SQL query to fetch the count of employees working in project 'P1'.
- Ques.3. Write an SQL query to find the maximum, minimum, and average salary of the employees.
- Ques.4. Write an SQL query to find the employee id whose salary lies in the range of 10000 and 15000.
- Ques.5. Write an SQL query to display the total salary of each employee adding the Salary with Variable value.
- Ques.6. Write an SQL query to fetch the Emplds that are present in both the tables 'EmployeeDetails' and 'EmployeeSalary.
- Ques.7. Write an SQL query to upper case the name of the employee and lower case the city values.
- Ques.8. Write an SQL query to fetch project-wise count of employees sorted by project's count in descending order.
- Ques.9. Write an SQL query to fetch only odd rows from the table.
- Ques.10. Write SQL query to find the 3rd highest salary from a table without using the TOP/limit keyword.

Solutions

Create database called **testdb**, and table named as **employeeDetails**

```
postgres=# create database testdb

postgres-#;

CREATE DATABASE

postgres=# \dt

Did not find any relations.

postgres=# \c testdb

You are now connected to database "testdb" as user "postgres".

testdb=# create table employeeDetails (empid int, fullname varchar(20), managerid int, city varchar (10)

testdb(# );

CREATE TABLE
```

Insert values into employeeDetails

```
testdb=# insert into employeeDetails(empid, fullname, managerid, city)
testdb-# values (101, 'Harry Potter', 901, 'Delhi');
INSERT 0 1
testdb=# insert into employeeDetails(empid, fullname, managerid, city)
testdb-# values (102, 'Hermoine Granger', 902, 'Hyderabad');
INSERT 0 1
testdb=# insert into employeeDetails(empid, fullname, managerid, city)
testdb-# values (103, 'Ron Weasly', 903, 'Mumbai');
INSERT 0 1
testdb=# insert into employeeDetails(empid, fullname, managerid, city)
testdb-# values (103, 'Nevvile LongBottom', 101, 'Mumbai');
INSERT 0 1
```

1.

Create table named as employeeSalary and insert values

```
testdb=# create table employeeSalary (empid int, project varchar(10), salary int, variable int);
CREATE TABLE
testdb=# insert into employeeSalary(empid, project, salary, variable)
testdb-# values (101, 'P1', 20000, 100);
INSERT 0 1
testdb=# insert into employeeSalary(empid, project, salary, variable)
testdb-# values (102, 'P2', 15000, 80);
INSERT 0 1
testdb=# insert into employeeSalary(empid, project, salary, variable)
testdb-# values (103, 'P3', 10000, 60);
INSERT 0 1
testdb=# insert into employeeSalary(empid, project, salary, variable)
testdb=# insert into employeeSalary(empid, project, salary, variable)
testdb-# values (104, 'P4', 8000, 40);
INSERT 0 1
```

```
testdb=# select count (*) from employeeSalary
testdb-# where project='P1';
count
-----
1
(1 row)
```

3.

4.

5.

6.

```
testdb=# select empid from employeeDetails
testdb-# where empid in
testdb-# (select empid from employeeSalary);
empid
-----
101
102
103
103
(4 rows)
```

7.

8.

9.

10.

```
testdb=# select max(salary) from employeeSalary
testdb-# where salary != (select max(salary) from employeeSalary
testdb(# where salary != (select max(salary) from employeeSalary))
testdb-# and salary != (select max(salary) from employeeSalary);
    max
-----
10000
(1 row)
```