Assignment 2

1.Create the following table with the given data as follows.  
->create database emp10;  
mysql> show databases;

+--------------------+

| Database |

+--------------------+

| emp1 |

| emp10 |

| empdatabase |

| information\_schema |

| mysql |

| performance\_schema |

| studentdatabase |

| sys |

| xyz |

+--------------------+

9 rows in set (0.04 sec)  
  
->create table emp1(empid int,acno int,ename varchar(20),sal int,bankname varchar(20),branch varchar(30),yearofjoin int,pastexp int,address varchar(30));  
  
  
2. Write a query to display all the records from the table.  
-> show tables;

+-----------------+

| Tables\_in\_emp10 |

+-----------------+

| emp1 |

+-----------------+

1 row in set (0.00 sec)  
  
->select\*from emp1;

+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+

| empid | acno | ename | sal | bankname | branch | yearofjoin | pastexp | address |

+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+

| 1001 | 123456 | Pary | 25000 | SBI | Mnagalore | 2020 | 3 | Mangalore |

| 1002 | 234567 | Nayan | 28500 | BOB | Udupi | 2021 | 2 | Mangalore |

| 1003 | 345678 | Alen | 24500 | UBI | Bangalore | 2022 | 1 | Mang |

| 1004 | 456789 | Mouni | 36000 | KMB | Ujre | 2020 | 3 | nitte |

| 1005 | 654321 | Siddu | 32500 | SBI | Mangalore | 2021 | 4 | nitte |

| 1006 | 765432 | Nikam | 25000 | KMB | Mangalore | 2023 | 0 | udupi |

| 1007 | 876543 | Komal | 24000 | ICICI | Udupi | 2023 | 2 | udupi |

| 1008 | 987654 | John | 31000 | HDFC | Mangalore | 2024 | 1 | Ujjre |

| 1009 | 129038 | Enry | 29000 | BOI | Udupi | 2020 | 3 | Ujjre |

| 1010 | 123890 | Lilli | 28000 | HDFC | Ujjre | 2021 | 2 | nitte |

| 1011 | 890321 | Peeter | 36000 | ICICI | Mangalore | 2022 | 0 | Mangalore |

| 1012 | 789012 | Bhuvi | 34000 | SBI | Mangalore | 2023 | 5 | udupi |

| 1013 | 123490 | Danial | 30000 | UBI | Ujjre | 2023 | 2 | Ujjre |

| 1014 | 102938 | Umank | 22500 | ICICI | Udupi | 2024 | 1 | nitte |

| 1015 | 756234 | Sandy | 38900 | KMB | Udupi | 2019 | 2 | Mangalore |

+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+

15 rows in set (0.00 sec)  
  
  
3. Write a query to display all the records from the table, whose branch and address both are the same.  
->select \*from emp10.emp1 where branch=address;

+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+

| empid | acno | ename | sal | bankname | branch | yearofjoin | pastexp | address |

+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+

| 1007 | 876543 | Komal | 24000 | ICICI | Udupi | 2023 | 2 | udupi |

| 1011 | 890321 | Peeter | 36000 | ICICI | Mangalore | 2022 | 0 | Mangalore |

| 1013 | 123490 | Danial | 30000 | UBI | Ujjre | 2023 | 2 | Ujjre |

+-------+--------+--------+-------+----------+-----------+------------+---------+-----------+

3 rows in set (0.00 sec)  
  
4. Write a query to display employee acno, ename, bankname, and branch details whose salary is more than 30000.  
->mysql> select acno,ename,bankname,branch from emp10.emp1 where sal>30000;

+--------+--------+----------+-----------+

| acno | ename | bankname | branch |

+--------+--------+----------+-----------+

| 456789 | Mouni | KMB | Ujre |

| 654321 | Siddu | SBI | Mangalore |

| 987654 | John | HDFC | Mangalore |

| 890321 | Peeter | ICICI | Mangalore |

| 789012 | Bhuvi | SBI | Mangalore |

| 756234 | Sandy | KMB | Udupi |

+--------+--------+----------+-----------+

6 rows in set (0.00 sec)  
  
  
5. Write a query to display employee records who are earning less than

25000  
mysql> select \*from emp10.emp1 where sal<25000;

+-------+--------+-------+-------+----------+-----------+------------+---------+---------+

| empid | acno | ename | sal | bankname | branch | yearofjoin | pastexp | address |

+-------+--------+-------+-------+----------+-----------+------------+---------+---------+

| 1003 | 345678 | Alen | 24500 | UBI | Bangalore | 2022 | 1 | Mang |

| 1007 | 876543 | Komal | 24000 | ICICI | Udupi | 2023 | 2 | udupi |

| 1014 | 102938 | Umank | 22500 | ICICI | Udupi | 2024 | 1 | nitte |

+-------+--------+-------+-------+----------+-----------+------------+---------+---------+

3 rows in set (0.00 sec)  
  
  
6. Write a query to display the employee record of who is earning the highest

salary.  
mysql> select \* from emp10.emp1 where sal=(select max(sal)from emp10.emp1);

+-------+--------+-------+-------+----------+--------+------------+---------+-----------+

| empid | acno | ename | sal | bankname | branch | yearofjoin | pastexp | address |

+-------+--------+-------+-------+----------+--------+------------+---------+-----------+

| 1015 | 756234 | Sandy | 38900 | KMB | Udupi | 2019 | 2 | Mangalore |

+-------+--------+-------+-------+----------+--------+------------+---------+-----------+

1 row in set (0.05 sec)

7. Write a query to display the employee name who is earning less salary.

mysql> SELECT ename

-> FROM emp10.emp1

-> WHERE sal < (SELECT MIN(sal) FROM emp10.emp1);

Empty set (0.00 sec)

8. Write a query to the employee ename, acno, and bankname who are

earning in between 25000 and 32000 (both are included).

mysql> select acno,ename,bankname,branch from emp10.emp1 where sal between 25000 and 32000;

+--------+--------+----------+-----------+

| acno | ename | bankname | branch |

+--------+--------+----------+-----------+

| 123456 | Pary | SBI | Mnagalore |

| 234567 | Nayan | BOB | Udupi |

| 765432 | Nikam | KMB | Mangalore |

| 987654 | John | HDFC | Mangalore |

| 129038 | Enry | BOI | Udupi |

| 123890 | Lilli | HDFC | Ujjre |

| 123490 | Danial | UBI | Ujjre |

+--------+--------+----------+-----------+

7 rows in set (0.03 sec)  
  
  
9. Write a query to display eid, ename, sal, acno who have an account in SBI

bank.  
mysql> select empid, ename, sal, acno from emp10.emp1 where bankname = 'sbi';

+-------+-------+-------+--------+

| empid | ename | sal | acno |

+-------+-------+-------+--------+

| 1001 | Pary | 25000 | 123456 |

| 1005 | Siddu | 32500 | 654321 |

| 1012 | Bhuvi | 34000 | 789012 |

+-------+-------+-------+--------+

3 rows in set (0.00 sec)  
  
10. Write a query to display eid, ename, sal, acno who have an account in ICICI bank and from udipi branch.

mysql> SELECT empid, ename, sal, acno from emp10.emp where bankname = 'ICICI' and branch = 'Udupi';

+-------+-------+-------+--------+

| empid | ename | sal | acno |

+-------+-------+-------+--------+

| 1007 | Komal | 24000 | 876543 |

| 1014 | Umank | 22500 | 102938 |

+-------+-------+-------+--------+

11. Write a query to display eid, ename, sal, acno who have joined before

2023(2023 is excluded).

mysql> SELECT empid, ename, sal, acno

-> FROM emp10.emp1

-> WHERE Yearofjoin < 2023;

+-------+--------+-------+--------+

| empid | ename | sal | acno |

+-------+--------+-------+--------+

| 1001 | Pary | 25000 | 123456 |

| 1002 | Nayan | 28500 | 234567 |

| 1003 | Alen | 24500 | 345678 |

| 1004 | Mouni | 36000 | 456789 |

| 1005 | Siddu | 32500 | 654321 |

| 1009 | Enry | 29000 | 129038 |

| 1010 | Lilli | 28000 | 123890 |

| 1011 | Peeter | 36000 | 890321 |

| 1015 | Sandy | 38900 | 756234 |

+-------+--------+-------+--------+

9 rows in set (0.00 sec)

12. Write a query to display eid, ename, sal, acno, bankname and branch who

have an account in SBI bank and joined after 2022.  
mysql> SELECT empid, ename, sal, acno, bankname, branch

-> FROM emp10.emp1

-> WHERE bankname = 'SBI' AND YEARofjoin > 2022;

+-------+-------+-------+--------+----------+-----------+

| empid | ename | sal | acno | bankname | branch |

+-------+-------+-------+--------+----------+-----------+

| 1012 | Bhuvi | 34000 | 789012 | SBI | Mangalore |

+-------+-------+-------+--------+----------+-----------+

1 row in set (0.00 sec)  
  
13. Write a query to display eid, ename, sal, acno,address who have joined

early from mangalore.  
mysql> SELECT e.empid, e.ename, e.sal, e.acno, e.address

-> FROM emp10.emp1 e

-> WHERE e.address != 'Mangalore' AND

-> EXISTS (

-> SELECT 1

-> FROM emp10.emp1

-> WHERE address = 'Mangalore' AND yearofjoin < e.yearofjoin

-> );

+-------+--------+-------+--------+---------+

| empid | ename | sal | acno | address |

+-------+--------+-------+--------+---------+

| 1003 | Alen | 24500 | 345678 | Mang |

| 1004 | Mouni | 36000 | 456789 | nitte |

| 1005 | Siddu | 32500 | 654321 | nitte |

| 1006 | Nikam | 25000 | 765432 | udupi |

| 1007 | Komal | 24000 | 876543 | udupi |

| 1008 | John | 31000 | 987654 | Ujjre |

| 1009 | Enry | 29000 | 129038 | Ujjre |

| 1010 | Lilli | 28000 | 123890 | nitte |

| 1012 | Bhuvi | 34000 | 789012 | udupi |

| 1013 | Danial | 30000 | 123490 | Ujjre |

| 1014 | Umank | 22500 | 102938 | nitte |

+-------+--------+-------+--------+---------+

11 rows in set (0.04 sec)  
  
  
14. Write a query to display eid, ename, sal, acno who have an account in SBI

bank and whose name starts with ‘p’.  
mysql> SELECT empid, ename, sal, acno

-> FROM emp10.emp1

-> WHERE bankname = 'SBI' AND ename LIKE 'P%';

+-------+-------+-------+--------+

| empid | ename | sal | acno |

+-------+-------+-------+--------+

| 1001 | Pary | 25000 | 123456 |

+-------+-------+-------+--------+

1 row in set (0.00 sec)

15. Write a query to display the number of employees having the same salary

and that salary from the table.  
mysql> SELECT sal, COUNT(\*) AS num\_employees

-> FROM emp10.emp1

-> GROUP BY sal

-> HAVING COUNT(\*) > 1;

+-------+---------------+

| sal | num\_employees |

+-------+---------------+

| 25000 | 2 |

| 36000 | 2 |

+-------+---------------+

2 rows in set (0.04 sec)