ASSIGNMENT 7

1. Select the detail of the employee whose name start with P.

```
mysql> select * from employee where empname like 'P%';
+-------+---------+------------+------------+-----------------+-----------+
| empid | empname | department | contactNo  | emailid         | empHeadId |
+-------+---------+------------+------------+-----------------+-----------+
|   102 | Priya   | E-104      | 1234567890 | priya@yahoo.com |       103 |
+-------+---------+------------+------------+-----------------+-----------+
1 row in set (0.00 sec)
```

2. How many permanent candidate take salary more than 5000.

```
mysql> select * from empsalary where ispermanent='Yes' and salary>5000;
+-------+--------+-------------+
| empid | salary | ispermanent |
+-------+--------+-------------+
|   102 |  10000 | Yes         |
+-------+--------+-------------+
1 row in set (0.00 sec)

mysql> select count(*) from empsalary where ispermanent='Yes' and salary>5000;
+----------+
| count(*) |
+----------+
|        1 |
+----------+
1 row in set (0.36 sec)
```

3. Select the detail of employee whose emailId is in gmail.

```
mysql> select * from employee where emailId like '%gmail%';
+-------+----------+------------+------------+--------------------+-----------+
| empid | empname  | department | contactNo  | emailid            | empHeadId |
+-------+----------+------------+------------+--------------------+-----------+
|   101 | Isha     | E-101      | 1234567890 | isha@gmail.com     |       105 |
|   103 | Neha     | E-101      | 1234567890 | neha@gmail.com     |       101 |
|   105 | Abhishek | E-101      | 1234567890 | abhishek@gmail.com |       102 |
+-------+----------+------------+------------+--------------------+-----------+
3 rows in set (0.01 sec)
```

4. Select the details of the employee who work either for department E-104 or E-102.

```
mysql> select * from employee where department='E-104' or department='E-102';
+-------+---------+------------+------------+-----------------+-----------+
| empid | empname | department | contactNo  | emailid         | empHeadId |
+-------+---------+------------+------------+-----------------+-----------+
|   102 | Priya   | E-104      | 1234567890 | priya@yahoo.com |       103 |
|   104 | Rahul   | E-102      | 1234567890 | rahul@yahoo.com |       105 |
+-------+---------+------------+------------+-----------------+-----------+
2 rows in set (0.00 sec)
```

5. What is the department name for DeptID E-102?

```
mysql> select deptname from empdept where deptid='E-102';
+-------------+
| deptname    |
+-------------+
| Development |
+-------------+
1 row in set (0.00 sec)
```

6. What is total salarythat is paid to permanent employees?

```
mysql> select sum(salary) from empsalary where ispermanent='Yes';
+-------------+
| sum(salary) |
+-------------+
|       16200 |
+-------------+
1 row in set (0.00 sec)
```

7. List name of all employees whose name ends with a.

```
mysql> select empname from employee where empname like '%a';
+---------+
| empname |
+---------+
| Isha    |
| Priya   |
| Neha    |
+---------+
3 rows in set (0.00 sec)
```

8. List the number of department employees in each project.

```
mysql> select * from empproject where startyear=2010;
+-------+-----------+----------+-----------+---------+
| empid | projectid | clientid | startyear | endyear |
+-------+-----------+----------+-----------+---------+
|   101 | P-1       | Cl-1     |      2010 |    2010 |
|   102 | P-2       | Cl-2     |      2010 |    2012 |
+-------+-----------+----------+-----------+---------+
2 rows in set (0.00 sec)
```

9. How many project started in year 2010.

```
mysql> select * from empproject where startyear=endyear;
+-------+-----------+----------+-----------+---------+
| empid | projectid | clientid | startyear | endyear |
+-------+-----------+----------+-----------+---------+
|   101 | P-1       | Cl-1     |      2010 |    2010 |
+-------+-----------+----------+-----------+---------+
1 row in set (0.00 sec)
```

```
mysql> select count(*) from empproject where startyear=endyear;
+----------+
| count(*) |
+----------+
|        1 |
+----------+
1 row in set (0.00 sec)
```

10. How many project started and finished in the same year.

```
mysql> select empname from employee where empname like '__h%';
+----------+
| empname  |
+----------+
| Isha     |
| Neha     |
| Rahul    |
| Abhishek |
+----------+
4 rows in set (0.00 sec)
```

11. Select the name of the employee whose name's 3rd charactor is 'h'.

```
mysql> select deptname, empid from empdept join employee on empid>103;
+----------------+-------+
| deptname       | empid |
+----------------+-------+
| HR             |   105 |
| HR             |   104 |
| Development    |   105 |
| Development    |   104 |
| House Keeping  |   105 |
| House Keeping  |   104 |
| Sales          |   105 |
| Sales          |   104 |
| Purchase       |   105 |
| Purchase       |   104 |
+----------------+-------+
10 rows in set (0.03 sec)
```

12. Select the department name of the company which is assigned to the employee whose employee id is grater 103.

```
mysql> select empname from employee where empHeadId=105;
+---------+
| empname |
+---------+
| Isha    |
| Rahul   |
+---------+
2 rows in set (0.00 sec)
```

13. Select the name of the employee who is working under Abhishek.

```
mysql> select empname, deptname from empdept join employee on empid=depthead where deptname='HR';
+----------+----------+
| empname  | deptname |
+----------+----------+
| Abhishek | HR       |
+----------+----------+
1 row in set (0.00 sec)
```

14. Select the name of the employee who is department head of HR.

```
mysql> select employee.empname, employee.empid, empsalary.empid, empsalary.ispermanent
from employee join empsalary on employee.empid=empsalary.empid where
empsalary.ispermanent='Yes';
+----------+-------+-------+-------------+
| empname  | empid | empid | ispermanent |
+----------+-------+-------+-------------+
| Isha     |   101 |   101 | Yes         |
| Priya    |   102 |   102 | Yes         |
| Rahul    |   104 |   104 | Yes         |
| Abhishek |   105 |   105 | Yes         |
+----------+-------+-------+-------------+
4 rows in set (0.00 sec)
```

15. Select the name of the employee head who is permanent.

16. Select the name and email of the Dept Head who is not Permanent.

```
select empName, emailId from employee as e join
 (select deptHead,isPermanent, empId from empDept as a join
  empSalary as b on a.deptHead=b.empId where b.isPermanent='No')
  as x where e.empId=x.empId;
+---------+----------------+
| empName | emailId        |
+---------+----------------+
| Neha    | neha@gmail.com |
+---------+----------------+
1 row in set (0.01 sec)
```

17. Select the employee whose department off is monday

```
select a.empName, a.empId, a.department, b.dept_off from employee as a join empDept
 as b on a.department = b.deptId where b.dept_off = 'Monday';
+----------+-------+------------+----------+
| empName  | empId | department | dept_off |
+----------+-------+------------+----------+
| Isha     |   101 | E-101      | Monday   |
| Neha     |   103 | E-101      | Monday   |
| Abhishek |   105 | E-101      | Monday   |
```

```
+----------+-------+------------+----------+
```

18. Select the indian clients details.

```
mysql> select a.cid, a.cname,b.clientId, b.clientName from country as a join clientTable b
 on a.cid = b.cid where a.cid = 'c-1';
+-----+-------+----------+------------+
| cid | cname | clientId | clientName |
+-----+-------+----------+------------+
| c-1 | India | cl-1     | ABC Group  |
| c-1 | India | cl-2     | PQR        |
+-----+-------+----------+------------+
2 rows in set (0.00 sec)
```

19. Select the details of all employee working in development department.

```
mysql> select a.empName, a.empId, b.deptName,a.department from employee as a join empDept
as b on a.department = b.deptId where b.deptId = 'E-102';
+---------+-------+-------------+------------+
| empName | empId | deptName    | department |
+---------+-------+-------------+------------+
| Rahul   |   104 | Development | E-102      |
+---------+-------+-------------+------------+
1 row in set (0.00 sec)
```

20. Create a procedure to calculate the average salaries of employees.

```
mysql> select avg(salary) from empSalary;
+-------------+
| avg(salary) |
+-------------+
|   4240.0000 |
+-------------+
1 row in set (0.00 sec)
```

21. Join first tow tables using inner join.

```
mysql> select a.*, b.* from employee as a inner join empDept as b on a.department = b.deptId ;
+-------+----------+------------+------------+-------------------+-----------+--------+------------+----------+---------+
| empId | empName  | department | contactNo  | emailId           | empHeadId | deptId | deptName   | dept_off | deptHead |
```

```
+-------+----------+------------+------------+-------------------+----------+--------+------------+----------+-------
---+
|   101 | Isha     | E-101      | 1234567890 | isha@gmail.com    |      105 | E-101  | HR         |
Monday   |    105 |
|   102 | Priya    | E-104      | 1234567890 | priya@yahoo.com   |      103 | E-104  | Sales      |
Sunday   |    104 |
|   103 | Neha     | E-101      | 1234567890 | neha@gmail.com    |      101 | E-101  | HR         |
Monday   |    105 |
|   104 | Rahul    | E-102      | 1234567890 | rahul@yahoo.com   |      105 | E-102  |
Development | Tuesday |    101 |
|   105 | Abhishek | E-101      | 1234567890 | abhishek@gmail.com |     102 | E-101  | HR         |
Monday   |    105 |
+-------+----------+------------+------------+-------------------+----------+--------+------------+----------+-------
---+
5 rows in set (0.00 sec)
```

22. Create a copy of employee table, add three extra entries in it and find the union, difference
and intersect.

```
mysql> insert into employeeClone values (106,'Sahil','E-104','0987654321',
'sahil@gmail.com',102
),(107,'Saurabh','E-104','9876543210','saurabh@gmail.com',103),
(108,'Sachin','E-101','546123789
0','sachin@abcd.in',105);
Query OK, 3 rows affected (0.13 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select * from employeeClone;
+-------+----------+------------+------------+-------------------+----------+
| empId | empName  | department | contactNo  | emailId           | empHeadId |
+-------+----------+------------+------------+-------------------+----------+
|   101 | Isha     | E-101      | 1234567890 | isha@gmail.com    |      105 |
|   102 | Priya    | E-104      | 1234567890 | priya@yahoo.com   |      103 |
|   103 | Neha     | E-101      | 1234567890 | neha@gmail.com    |      101 |
|   104 | Rahul    | E-102      | 1234567890 | rahul@yahoo.com   |      105 |
|   105 | Abhishek | E-101      | 1234567890 | abhishek@gmail.com |     102 |
|   106 | Sahil    | E-104      | 0987654321 | sahil@gmail.com   |      102 |
|   107 | Saurabh  | E-104      | 9876543210 | saurabh@gmail.com |      103 |
|   108 | Sachin   | E-101      | 5461237890 | sachin@abcd.in    |      105 |
+-------+----------+-----


mysql> select * from employee union select * from employeeClone;
+-------+----------+------------+------------+-------------------+----------+
```

```
| empId | empName  | department | contactNo  | emailId           | empHeadId |
+-------+----------+------------+------------+-------------------+-----------+
|   101 | Isha     | E-101      | 1234567890 | isha@gmail.com    |       105 |
|   102 | Priya    | E-104      | 1234567890 | priya@yahoo.com   |       103 |
|   103 | Neha     | E-101      | 1234567890 | neha@gmail.com    |       101 |
|   104 | Rahul    | E-102      | 1234567890 | rahul@yahoo.com   |       105 |
|   105 | Abhishek | E-101      | 1234567890 | abhishek@gmail.com|       102 |
|   106 | Sahil    | E-104      | 0987654321 | sahil@gmail.com   |       102 |
|   107 | Saurabh  | E-104      | 9876543210 | saurabh@gmail.com |       103 |
|   108 | Sachin   | E-101      | 5461237890 | sachin@abcd.in    |       105 |
+-------+----------+------------+------------+-------------------+-----------+
8 rows in set (0.01 sec)

mysql> select * from employee intersect select * from employeeClone;
+-------+----------+------------+------------+-------------------+-----------+
| empId | empName  | department | contactNo  | emailId           | empHeadId |
+-------+----------+------------+------------+-------------------+-----------+
|   101 | Isha     | E-101      | 1234567890 | isha@gmail.com    |       105 |
|   102 | Priya    | E-104      | 1234567890 | priya@yahoo.com   |       103 |
|   103 | Neha     | E-101      | 1234567890 | neha@gmail.com    |       101 |
|   104 | Rahul    | E-102      | 1234567890 | rahul@yahoo.com   |       105 |
|   105 | Abhishek | E-101      | 1234567890 | abhishek@gmail.com|       102 |
+-------+----------+------------+------------+-------------------+-----------+
5 rows in set (0.00 sec)


mysql> select * from employee except select * from employeeClone union all select * from
employeeClone except select * from employee;
+-------+---------+------------+------------+-------------------+-----------+
| empId | empName | department | contactNo  | emailId           | empHeadId |
+-------+---------+------------+------------+-------------------+-----------+
|   106 | Sahil   | E-104      | 0987654321 | sahil@gmail.com   |       102 |
|   107 | Saurabh | E-104      | 9876543210 | saurabh@gmail.com |       103 |
|   108 | Sachin  | E-101      | 5461237890 | sachin@abcd.in    |       105 |
+-------+---------+------------+------------+-------------------+-----------+
3 rows in set (0.00 sec)
```

24. Create a view for the data retrieved client name, project id, start and end year.

```
mysql> create view project_view as select e.clientName, x.projectId, x.startYear, x.endYear from
 clientTable as e join (select b.* from project as a join empProject as b on a.projectId=b.proje
ctId) as x where e.clientId=x.clientId;
Query OK, 0 rows affected (0.17 sec)

mysql> select * from project_view;
+------------+-----------+-----------+---------+
| clientName | projectId | startYear | endYear |
+------------+-----------+-----------+---------+
| ABC Group  | p-1       |      2010 |    2010 |
| PQR        | p-2       |      2010 |    2012 |
| XYZ        | p-1       |      2013 |    NULL |
| ABC Group  | p-4       |      2014 |    2015 |
| mnp        | p-4       |      2015 |    NULL |
+------------+-----------+-----------+---------+
5 rows in set (0.00 sec)
```

25. Calculate average salary of permanent employees.

```
mysql> select avg(salary) from empSalary where isPermanent = 'Yes';
+-------------+
| avg(salary) |
+-------------+
|   4050.0000 |
+-------------+
1 row in set (0.00 sec)
```