

Santosh Saxena : Assignment

```
Last login: Thu Jan 13 09:31:38 on ttys000
/Library/PostgreSQL/14/scripts/runpsql.sh; exit
(base) santosh.saxena@Santosh-MacBook-Air ~ % /Library/
PostgreSQL/14/scripts/runpsql.sh; exit
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Password for user postgres:
psql (14.1)
Type "help" for help.
```

```
postgres=# HELP
You are using psql, the command-line interface to
PostgreSQL.
Type: \copyright for distribution terms
       \h for help with SQL commands
       \? for help with psql commands
       \g or terminate with semicolon to execute query
       \q to quit
postgres=# set search_path to information ;
SET
postgres=# select * from employee ;
 eid |  ename   | age | joining_date |  salary
-----+-----+----+-----+-----
 107 | rishabh |  23 | 2022-01-13   | 450000
 108 | rishabh |  24 | 2022-01-13   | 500090
 109 | santosh |  26 | 2022-01-13   |  90000
 110 | mukesh  |  29 | 2022-01-13   | 1988393
 111 | papa    |  31 | 2022-01-13   | 983091938
(5 rows)
```

```
postgres=# select * from employee ;
 eid |  ename   | age | joining_date |  salary | project
-----+-----+----+-----+-----+-----
 107 | rishabh |  23 | 2022-01-13   | 450000 | P1
 108 | rishabh |  24 | 2022-01-13   | 500090 | P1
 109 | santosh |  26 | 2022-01-13   |  90000 | P1
 110 | mukesh  |  29 | 2022-01-13   | 1988393 | P1
 111 | papa    |  31 | 2022-01-13   | 983091938 | P1
 101 | rukmani |  19 | 2022-01-13   | 91840198 | P1
(6 rows)
```

```
postgres=# -- this is comment ;
Q1 :
```

```
postgres=# -- Assignment solutions ;
postgres=# -- q1 :
postgres=# select eid , ename from employee where eid =
101 ;
  eid |  ename
-----+-----
  101 | rukmani
(1 row)
```

Q2

```
postgres=# select project , count(project) from employee
group by project having project = 'P1' ;
 project | count
-----+-----
      P1 |      6
(1 row)
```

Q3

```
postgres=#
postgres=# select max(salary) as MAX_salary , min(salary)
as MIN_salary , avg(salary) as AVG_salary from employee ;
 max_salary | min_salary |      avg_salary
-----+-----+-----
983091938 |    90000 | 179660103.16666667
(1 row)
```

Q4

```
postgres=# select eid from employee where salary between
80000 and 150018000;
  eid
-----
  107
  108
  109
  110
  101
(5 rows)
```

Q5

```
postgres=# select ename, salary + 1000 from employee ;
  ename  | ?column?
-----+-----
rishabh |    451000
rishabh |    501090
santosh |     91000
mukesh  |   1989393
papa    |  983092938
rukmani |   91841198
(6 rows)
```

```
postgres=# select ename, salary + eid from employee ;
  ename  | ?column?
-----+-----
rishabh |    450107
rishabh |    500198
santosh |     90109
mukesh  |   1988503
papa    |  983092049
rukmani |   91840299
(6 rows)
```

Q6

```
postgres=# select id_rollno , eid from employee,
student ;
 id_rollno | eid
-----+-----
(0 rows)
```

Q7

```
postgres=# select upper(ename) , lower(project) from
employee;
 upper | lower
-----+-----
RISHABH | p1
RISHABH | p1
SANTOSH | p1
MUKESH  | p1
PAPA    | p1
```

```
    RUKMANI | p1
(6 rows)
Q8
```

```
postgres=# select project, count(*) from employee group
by project ;
 project | count
-----+-----
    P1   |      6
(1 row)
```

```
postgres=# select project, count(employee) as
employee_count from employee group by project ;
 project | employee_count
-----+-----
    P1   |              6
(1 row)
```

Q9

```
postgres=# select * from employee where eid%2 = 1 ;
 eid |  ename  | age | joining_date | salary | project
-----+-----+-----+-----+-----+-----
+-----+
 107 | rishabh |  23 | 2022-01-13   | 450000 | P1
 109 | santosh |  26 | 2022-01-13   |  90000 | P1
 111 | papa    |  31 | 2022-01-13   |983091938 | P1
 101 | rukmani |  19 | 2022-01-13   | 91840198 | P1
(4 rows)
```

Q10.

```
postgres=# select max(salary) from employee where
postgres=# salary != (select max(salary) from employee
where salary != (select max(salary) from employee))
postgres=# and
postgres=# salary != (select max(salary) from employee);
 max
-----
1988393
(1 row)
```

```
postgres=#
postgres=#
```