

Postgre SQL Questions

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```
bajaj=# select * from employee;
 empid | fullname | managerid | project | salary
-----+-----+-----+-----+-----
    201 | Swattik  |          102 | P1      | 13000
    202 | Sankalp  |          101 | P1      | 15000
    203 | Deepak   |          101 | P2      | 12000
    204 | Ayush    |          103 | P1      | 20000
    205 | Simran   |          101 | P1      | 10000
(5 rows)
```

Q1.

```
bajaj=# select EmpId,FullName from employee where ManagerId = 101;
 empid | fullname
-----+-----
    202 | Sankalp
    203 | Deepak
    205 | Simran
(3 rows)
```

Q2.

```
bajaj=# select project, count(*) from employee group by project having project = 'P1';
 project | count
-----+-----
    P1   |      4
(1 row)
```

Q3.

```
bajaj=# select max(salary),min(salary),avg(salary) from employee;
   max   |   min   |   avg
-----+-----+-----
 20000   | 10000   | 14000
(1 row)
```

Q4.

```
bajaj=# select EmpId from employee where salary between 10000 and 15000;
empid
-----
 201
 202
 203
 205
(4 rows)
```

Q5.

```
bajaj=# alter table employee add column VariablePay real default 2000;
ALTER TABLE
bajaj=# select * from employee;
 empid | fullname | managerid | project | salary | variablepay
-----+-----+-----+-----+-----+-----
  201  | Swattik  |         102 | P1      | 13000  |         2000
  202  | Sankalp  |         101 | P1      | 15000  |         2000
  203  | Deepak   |         101 | P2      | 12000  |         2000
  204  | Ayush    |         103 | P1      | 20000  |         2000
  205  | Simran   |         101 | P1      | 10000  |         2000
(5 rows)
```

```
bajaj=# select empid,fullname, salary + variablepay as total_salary from employee;
 empid | fullname | total_salary
-----+-----+-----
  201  | Swattik  |         15000
  202  | Sankalp  |         17000
  203  | Deepak   |         14000
  204  | Ayush    |         22000
  205  | Simran   |         12000
(5 rows)
```

Q7.

```
bajaj=# select * from employee;
 empid | fullname | managerid | project | salary | variablepay | city
-----+-----+-----+-----+-----+-----+-----
    201 | Swattik  |         102 | P1      |   13000 |          2000 | Delhi
    202 | Sankalp  |         101 | P1      |   15000 |          2000 | Delhi
    204 | Ayush    |         103 | P1      |  20000 |          2000 | Delhi
    203 | Deepak   |         101 | P2      |   12000 |          2000 | Kolkata
    205 | Simran   |         101 | P1      |   10000 |          2000 | Chennai
(5 rows)
```

```
bajaj=# select UPPER(fullname), LOWER(city) from employee;
 upper | lower
-----+-----
SWATTIK | delhi
SANKALP | delhi
AYUSH   | delhi
DEEPAK  | kolkata
SIMRAN  | chennai
(5 rows)
```

Q8.

```
bajaj=# select project, count(*) from employee group by project order by count desc;
 project | count
-----+-----
P1       |      4
P2       |      1
(2 rows)
```

Q9.

```
bajaj=# select * from employee where mod(empid,2) = 1;
 empid | fullname | managerid | project | salary | variablepay | city
-----+-----+-----+-----+-----+-----+-----
    201 | Swattik  |         102 | P1      |   13000 |          2000 | Delhi
    203 | Deepak   |         101 | P2      |   12000 |          2000 | Kolkata
    205 | Simran   |         101 | P1      |   10000 |          2000 | Chennai
(3 rows)
```

Q10.

```
bajaj=# select salary from employee order by salary desc offset 2 limit 1;
 salary
-----
 13000
(1 row)
```