postgres=# \c bajaj;

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

bajaj=# create schema test;

CREATE SCHEMA

bajaj=# set search\_path to test;

SET

bajaj=# create table EmployeeeDetails (empid int primary key not null, fullname varchar(30), managerid int, city varchar(20));

CREATE TABLE

bajaj=# create table EmployeeSalary (empid int, project varchar(10), salary int);

CREATE TABLE

bajaj=# insert into employeeedetails (empid, fullname,managerid,city) values (101, 'mukesh', 102, 'delhi'), (102, 'narayan', 123, 'bengaluru'), (103, 'ratan', 165, 'mumbai');

INSERT 0 3

bajaj=# insert into employeesalary (empid, project, salary) values (101,'P1',7500), (102, 'P2', 11000), (103,'P1', 13000);

INSERT 0 3

bajaj=# select\* from employeeedetails;

empid | fullname | managerid | city

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

101 | mukesh | 102 | delhi

102 | narayan | 123 | bengaluru

103 | ratan | 165 | mumbai

(3 rows)

bajaj=# select \* from employeesalary;

empid | project | salary

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

101 | P1 | 7500

102 | P2 | 11000

103 | P1 | 13000

(3 rows)

bajaj=# insert into employeeedetails (empid, fullname, managerid,city) values (104,'anand',101,'pune');

INSERT 0 1

bajaj=# select\* from employeeedetails;

empid | fullname | managerid | city

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

101 | mukesh | 102 | delhi

102 | narayan | 123 | bengaluru

103 | ratan | 165 | mumbai

104 | anand | 101 | pune

(4 rows)

1)

bajaj=# select empid,fullname from employeeedetails where managerid = 101;

empid | fullname

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

104 | anand

(1 row)

2)

bajaj=# select count(\*) as No\_of\_Employees\_P1 from employeesalary where project = 'P1';

no\_of\_employees\_p1

--------------------

2

(1 row)

bajaj=# select max(salary) as Max\_Salary, min(salary) as Min\_Salary, avg(salary) as Avg\_Salary from employeesalary;

max\_salary | min\_salary | avg\_salary

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

13000 | 7500 | 10500.0000000000000000

(1 row)

bajaj=# insert into employeesalary (empid, project,salary) values (104,'P2', 18000);

INSERT 0 1

bajaj=# select \* from employeesalary;

empid | project | salary

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

101 | P1 | 7500

102 | P2 | 11000

103 | P1 | 13000

104 | P2 | 18000

(4 rows)

3)

bajaj=# select max(salary) as Max\_Salary, min(salary) as Min\_Salary, avg(salary) as Avg\_Salary from employeesalary;

max\_salary | min\_salary | avg\_salary

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

18000 | 7500 | 12375.0000000000000000

(1 row)

4)

bajaj=# select empid from employeesalary where salary between 10000 and 15000;

empid

-------

102

103

(2 rows)

bajaj=# alter table employeesalary add column variable int;

ALTER TABLE

bajaj=# select \* from employeesalary;

empid | project | salary | variable

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

101 | P1 | 7500 |

102 | P2 | 11000 |

103 | P1 | 13000 |

104 | P2 | 18000 |

(4 rows)

bajaj=# update employeesalary set variable = 1000;

UPDATE 4

bajaj=# select \* from employeesalary;

empid | project | salary | variable

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

101 | P1 | 7500 | 1000

102 | P2 | 11000 | 1000

103 | P1 | 13000 | 1000

104 | P2 | 18000 | 1000

(4 rows)

5)

bajaj=# select empid, salary+variable as Total\_Salary from employeesalary;

empid | total\_salary

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

101 | 8500

102 | 12000

103 | 14000

104 | 19000

(4 rows)

6)

bajaj=# select employeeedetails.empid from employeeedetails,employeesalary where employeeedetails.empid = employeesalary.empid;

empid

-------

101

102

103

104

(4 rows)

7)

bajaj=# select UPPER(fullname), LOWER(city) from employeeedetails;

upper | lower

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

MUKESH | delhi

NARAYAN | bengaluru

RATAN | mumbai

ANAND | pune

(4 rows)

8)

bajaj=# select project, count(empid) as emp\_count from employeesalary group by project order by emp\_count desc;

project | emp\_count

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

P2 | 2

P1 | 2

(2 rows)

9)

bajaj=# select \* from employeeedetails where mod (empid,2) <> 0;

empid | fullname | managerid | city

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

101 | mukesh | 102 | delhi

103 | ratan | 165 | mumbai

(2 rows)

10) ^

bajaj=# select max(salary) from employeesalary where salary != (select max(salary) from employeesalary where salary != (select max(salary) from employeesalary ))

bajaj-# and salary != (select max(salary) from employeesalary);

max

-------

11000

(1 row)

bajaj=#