NAME: Saksham mishra Date:05/03/2022

1. WAQ to display second highest salary in HR schema.

```
postgres=# select MAX(salary) from employees where salary < (select MAX(salary) from employees);
max
------
17000.00
(1 row)
```

2. WAQ to display name of employee who is earning maximum in his/her department.

```
postgres=# SELECT department_id, first_name, salary FROM employees d WHERE salary =
(SELECT MAX(salary) FROM employees WHERE department_id = d.department_id);
department_id | first_name | salary
```

```
90 | Steven | 24000.00

60 | Alexander | 9000.00

100 | Nancy | 12000.00

30 | Den | 11000.00

50 | Adam | 8200.00

80 | John | 14000.00

10 | Jennifer | 4400.00

20 | Michael | 13000.00

40 | Susan | 6500.00

70 | Hermann | 10000.00

110 | Shelley | 12000.00

(11 rows)
```

-----+-----

3. WAQ to display emplyees count who are working from same location.

postgres=# select l.city , count(e.first_name) as Employees from employees e, departments d , locations l where e.department_id = d.department_id and d.location_id = l.location_id group by city;

```
city | employees
```

+		
-	5	
	1	
South San Francisco		
	2	
	18	
	34	
	1	
	+ 	1 ancisco 2 18

4. WAQ to display number of employees joined year wise.

postgres=# SELECT to_char(hire_date, 'yyyy') as YEAR, COUNT(first_name) as Employees FROM employees GROUP BY to_char(hire_date, 'yyyy') ORDER BY to_char(hire_date, 'yyyy');

year | employees

1987	2
1989	1
1990	1
1991	1
1993	1
1994	7
1995	4
1996	10
1997	28
1998	23
1999	18
2000	11
(12 rows)	

5. WAP to top 2 earning employee name and salary in each department.

postgres=# select first_name , salary from employees order by salary desc limit 2; first_name | salary

```
Steven | 24000.00
Neena | 17000.00
(2 rows)
```

```
Select SQL Shell (psql)
                                                                                                                                                                                                                                                                                                                                                 O
    stgres=# select MAX(salary) from employees where salary < (select MAX(salary) from
  ostgress≓
ostgress≓
ostgress≓ SELECT department_id, first_name, salary FROM employees d WHERE salary = (SELECT MAX(salary) FROM employees WHERE department_id = d.department_id);
department_id | first_name | salary
                                                 24900.00
9000.00
12000.00
11000.00
8200.00
14000.00
4400.00
13000.00
6500.00
12000.00
  ostgres=# query: select l.city , count(e.first_name) as Employees from employees e, departments d , locations l where e.department_id = d.department_id and d.location_id = l.location_id group by c ostgres=# select l.city , count(e.first_name) as Employees from employees e, departments d , locations l where e.department_id = d.department_id and d.location_id = l.location_id group by city;
RROR: syntax error at or near "query"
INE 1: query: select l.city , count(e.first_name) as Employees fr...
   ostgres=# select l.city , count(e.first_name) as Employees from employees e, departments d , locations l where e.department_id = d.department_id and d.location_id = l.location_id group by city;

city | employees
    outhlake
ondon
outh San Francisco
                                                                                                                                                   stgres=# SELECT to_char(hire_date, 'yyyy') as YEAR , COUNT(first_name) as Employees FROM employees GROUP BY to_char(hire_date, 'yyyy') QRDER BY to_char(hire_date, 'yyyy'); ear | employees
Select SQL Shell (psql)
                                                                                                                                                                                                                                                                                                                                                     - 0
         res=#
res=# SELECT department_id, first_name, salary FROM employees d WHERE salary = (SELECT MXX(salary) FROM employees WHERE department_id = d.department_id);
rtment_id | first_name | salary |
30 | Steven | 24000.00
60 | Alexander | 9000.00
60 | Alexander | 9000.00
100 | Nancy | 12000.00
100 | Nancy | 12000.00
30 | Den | 11000.00
50 | Adam | 8200.00
80 | John | 14000.00
10 | Jennifer | 4400.00
10 | Susan | 6500.00
40 | Susan | 6500.00
70 | Hermann | 10000.00
110 | Shelley | 12000.00
0000
 postgres=# query: select l.city , count(e.first_name) as Employees from employees e, departments d , locations l where e.department_id = d.department_id and d.location_id = l.location_id group by costgres=# select l.city , count(e.first_name) as Employees from employees e, departments d , locations l where e.department_id = d.department_id and d.location_id = l.location_id group by city;
RRORE: syntax error at or near "query"
INE 1: query: select l.city , count(e.first_name) as Employees fr...
    stgres=# select l.city , count(e.first_name) as Employees from employees e, departments d , locations l where e.department_id = d.department_id and d.location_id = l.location_id group by city; city | employees
                                                                                                                                                          outh San Francisco
    stgres=# SELECT to_char(hire_date, 'yyyy') as YEAR , COUNT(first_name) as Employees FROM employees GROUP BY to_char(hire_date, 'yyyy') ORDER BY to_char(hire_date, 'yyyy') ; sar | employees
```

```
SQL Shell (psql)
year | employees
```

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	+
1987	2
1989	1
1990	1
1991	1
1993	1
1994	7
1995	4
1996	10
1997	28
1998	23
1999	18
2000	11
(12 por	ie)

postgres=# select first_name , salary from employees order by salary desc limit 2; first_name | salary

postgres_#