

# Assignment 6

1. Display manager ID and number of employees managed by the manager.

**Ans :** select manager\_id, count(\*) from employees group by manager\_id;

```
D4_PratikSatpute_62758>select manager_id, count(*) from employees group by manager_id;
```

manager_id	count(*)
0	1
100	14
101	5
102	1
103	4
108	5
114	5
120	8
121	8
122	8
123	8
124	8
145	6
146	6
147	6
148	6
149	6
201	1
205	1

```
19 rows in set (0.00 sec)
```

## 2. Display the country ID and number of cities we have in the country.

**Ans :**

Select country\_id , count(\*) from locations group by country\_id;

```
D4_PratikSatpute_62758>Select country_id , count(*) from locations group by country_id;
```

country_id	count(*)
"	1
AU	1
BR	1
CA	2
CH	2
CN	1
DE	1
IN	1
IT	2
JP	2
NL	1
Ox	1
SG	1
UK	2
US	4

15 rows in set (0.00 sec)

## 3. Display average salary of employees in each department who have commission percentage.

**Ans:** select avg(salary) from employees where commission\_pct is not null;

```
D4_PratikSatpute_62758>select avg(salary) from employees where commission_pct is not null;
```

avg(salary)
6461.682243

1 row in set (0.00 sec)

4. Display job ID, number of employees, sum of salary, and difference between highest salary and lowest salary of the employees of the job.

Ans:

Select Job\_ID ,count(\*) as 'No. of Employees ', sum(salary) as 'Total salary ', (max(salary)-min(salary)) As 'difference between max and min salary ' from employees group by job\_id;

```
D4_PratikSatpute_62758>Select Job_ID ,count(*) as 'No. of Employees ', sum(salary) as 'Total salary ', (max(salary)-min(salary)) As 'difference between max and min salary ' from employees group by job_id;
```

Job_ID	No. of Employees	Total salary	difference between max and min salary
AC_ACCOUNT	1	8300.00	0.00
AC_MGR	1	12000.00	0.00
AD_ASST	1	4400.00	0.00
AD PRES	1	24000.00	0.00
AD_VP	2	34000.00	0.00
FI_ACCOUNT	5	39600.00	2100.00
FI_MGR	1	12000.00	0.00
HR_REP	1	6500.00	0.00
IT_PROG	5	28800.00	4800.00
MK_MAN	1	13000.00	0.00
MK_REP	1	6000.00	0.00
PR_REP	1	10000.00	0.00
PU_CLERK	5	13900.00	600.00
PU_MAN	1	11000.00	0.00
SA_MAN	5	61000.00	3500.00
SA_REP	30	250500.00	5400.00
SH_CLERK	20	64300.00	1700.00
ST_CLERK	20	55700.00	1500.00
ST_MAN	5	36400.00	2400.00

19 rows in set (0.01 sec)

### 5. Display job ID for jobs with average salary more than 10000.

**Ans :**

Select Job\_ID, round (avg(salary),1) as 'Average Salary' from employees group by job\_id having Avg(Salary)>10000 ;

```
D4_PratikSatpute_62758>Select Job_ID, round (avg(salary),1) as 'Average Salary '
from employees group by job_id having Avg(Salary)>10000 ;
```

Job_ID	Average Salary
AC_MGR	12000.0
AD_PRES	24000.0
AD_VP	17000.0
FI_MGR	12000.0
MK_MAN	13000.0
PU_MAN	11000.0
SA_MAN	12200.0

```
7 rows in set (0.00 sec)
```

### 6. Display years in which more than 10 employees joined.

**Ans:** select year(hire\_date), count(\*) from employees group by year(hire\_date) having count(\*) >10;

```
D4_PratikSatpute_62758>select year(hire_date), count(*) from employees group by
year(hire_date) having count(*) >10;
```

year(hire_date)	count(*)
1987	107

```
1 row in set (0.00 sec)
```

**7. Display departments in which more than five employees have commission percentage.**

**Ans:** select Department\_ID, count(\*) from employees group by department\_Id;

```
D4_PratikSatpute_62758>select Department_ID, count(*) from employees group by
department_Id;
```

Department_ID	count(*)
0	1
10	1
20	2
30	6
40	1
50	45
60	5
70	1
80	34
90	3
100	6
110	2

```
12 rows in set (0.01 sec)
```

**8. Display employee ID for employees who did more than one job in the past.**

**Ans:** select Employee\_ID ,count(\*) from job\_history group by employee\_id having count(\*)>1;

```
D4_PratikSatpute_62758>select Employee_ID ,count(*) from job_history group by
employee_id having count(*)>1;
```

Employee_ID	count(*)
101	2
176	2
200	2

```
3 rows in set (0.00 sec)
```

**9. Display job ID of jobs that were done by more than 3 employees for more than 100 days.**

**Ans:** Select job\_id from employees where datediff(now(), hire\_date)>100 group by job\_id having count(job\_id)>3;

```
D4_PratikSatpute_62758>Select job_id from employees where datediff(now(), hire_date)>100 group by
job_id having count(job_id)>3;
+-----+
| job_id |
+-----+
| FI_ACCOUNT |
| IT_PROG |
| PU_CLERK |
| SA_MAN |
| SA_REP |
| SH_CLERK |
| ST_CLERK |
| ST_MAN |
+-----+
8 rows in set (0.00 sec)
```

**10. Display department ID, year, and Number of employees joined.**

**Ans:** select department\_ID , round(AVG(year(hire\_date))) ,count(employee\_id) from employees group by department\_id;

```
D4_PratikSatpute_62758>select department_ID , round(AVG(year(hire_date))) ,count(employee_id)
from employees group by department_id;
+-----+-----+-----+
| department_ID | round(AVG(year(hire_date))) | count(employee_id) |
+-----+-----+-----+
| 0 | 1987 | 1 |
| 10 | 1987 | 1 |
| 20 | 1987 | 2 |
| 30 | 1987 | 6 |
| 40 | 1987 | 1 |
| 50 | 1987 | 45 |
| 60 | 1987 | 5 |
| 70 | 1987 | 1 |
| 80 | 1987 | 34 |
| 90 | 1987 | 3 |
| 100 | 1987 | 6 |
| 110 | 1987 | 2 |
+-----+-----+-----+
12 rows in set (0.01 sec)
```

**11. Display how many employees joined in each month of the current year.**

**Ans:** Select count(employee\_id) as employee\_count from employees  
where year(now())= year(hire\_date);

```
D4_PratikSatpute_62758>Select count(employee_id) as employee_count from employees
where year(now())= year(hire_date);
+-----+
| employee_count |
+-----+
|                |
+-----+
1 row in set (0.00 sec)
```

**12. Display details of departments in which the maximum salary is more than 10000**

**Ans:** Select d.department\_id, d.department\_name, e.salary from  
departments d INNER JOIN Employees e ON e. salary>10000;

```
D4_PratikSatpute_62758>Select d.department_id, d.department_name, e.salary from departments
d INNER JOIN Employees e ON e.salary>10000;
```

department_id	department_name	salary
270	Payroll	24000.00
260	Recruiting	24000.00
250	Retail Sales	24000.00
240	Government Sales	24000.00
230	IT Helpdesk	24000.00
220	NOC	24000.00
210	IT Support	24000.00
200	Operations	24000.00
190	Contracting	24000.00
180	Construction	24000.00
170	Manufacturing	24000.00
160	Benefits	24000.00
150	Shareholder Services	24000.00
140	Control And Credit	24000.00
130	Corporate Tax	24000.00
120	Treasury	24000.00
110	Accounting	24000.00
100	Finance	24000.00
90	Executive	24000.00
80	Sales	24000.00
70	Public Relations	24000.00
60	IT	24000.00
50	Shipping	24000.00
40	Human Resources	24000.00
30	Purchasing	24000.00
20	Marketing	24000.00
10	Administration	24000.00
270	Payroll	17000.00
260	Recruiting	17000.00
250	Retail Sales	17000.00
240	Government Sales	17000.00
230	IT Helpdesk	17000.00
220	NOC	17000.00
210	IT Support	17000.00
200	Operations	17000.00
190	Contracting	17000.00
180	Construction	17000.00
170	Manufacturing	17000.00
160	Benefits	17000.00
150	Shareholder Services	17000.00
140	Control And Credit	17000.00
130	Corporate Tax	17000.00
120	Treasury	17000.00