**QUERIES FOR INSERTING DATA:**

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (100,'steven','king','sking',str\_to\_date('17,jun,87','%d,%b,%y'),'AD\_PRES',24000,0,90);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (101,'Neena','kochhar','Nkochhar',str\_to\_date('18,jun,87','%d,%b,%y'),'AD\_VP',17000,100,90);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (102,'Lex','De Haan','LDEHAAN',str\_to\_date('19,jun,87','%d,%b,%y'),'AD\_VP',17000,100,90);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (103,'Alexander','Hunold','AHUNOLD',str\_to\_date('20,jun,87','%d,%b,%y'),'IT\_PROG',9000,102,60);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (104,'Bruce','Ernst','BERNST',str\_to\_date('21,jun,87','%d,%b,%y'), 'IT\_PROG',6000,103,60);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (105,'David','Austin','DAUSTIN',str\_to\_date('22,jun,87','%d,%b,%y'), 'IT\_PROG',4800,103,60);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (106,'Valli','Pataballa','VPATABAL',str\_to\_date('23,jun,87','%d,%b,%y'), 'IT\_PROG',4800,103,60);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (107,'Diana','Lorentz','DLORENTZ',str\_to\_date('24,jun,87','%d,%b,%y'), 'IT\_PROG',4200,103,60);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (108,'Nancy','Greenberg','NGREENBE',str\_to\_date('25,jun,87','%d,%b,%y'),'FI\_MGR',12000,101,100);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (109,'Daniel','Faviet','DFAVIET',str\_to\_date('26,jun,87','%d,%b,%y'),'FI\_ACCOUNT ',9000,108,100);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (110,'John','Chen','JCHEN',str\_to\_date('27,jun,87','%d,%b,%y'),'FI\_ACCOUNT ',8200,108,100);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (111,'Ismael','Sciarra','ISCIARRA',str\_to\_date('28,jun,87','%d,%b,%y'),'FI\_ACCOUNT ',7700,108,100);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (112,'Jose Manue','Urman','JMURMAN',str\_to\_date('29,jun,87','%d,%b,%y'),'FI\_ACCOUNT ',7800,108,100);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (113,'Luis','Popp','LPOPP',str\_to\_date('30,jun,87','%d,%b,%y'),'FI\_ACCOUNT ',6900,108,100);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (114,'Den','Raphaely','DRAPHEAL',str\_to\_date('01,jul,87','%d,%b,%y'),'PU\_MAN',11000,100,30);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (115,'Alexander','Khoo','AKHOO',str\_to\_date('02,jul,87','%d,%b,%y'),'PU\_CLERK',3100,114,30);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (116,'Shelli','Baida','SBAIDA',str\_to\_date('03,jul,87','%d,%b,%y'),'PU\_CLERK ',2900,114,30);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (117,'Sigal','Tobias','STOBIAS',str\_to\_date('04,jul,87','%d,%b,%y'),'PU\_CLERK ',2800,114,30);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (118,'Guy','Himuro','GHIMURO',str\_to\_date('05,jul,87','%d,%b,%y'),'PU\_CLERK ',2600,114,30);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (119,'Karen','Colmenras','KCOLMENA',str\_to\_date('06,jul,87','%d,%b,%y'),'PU\_CLERK ',2500,114,30);

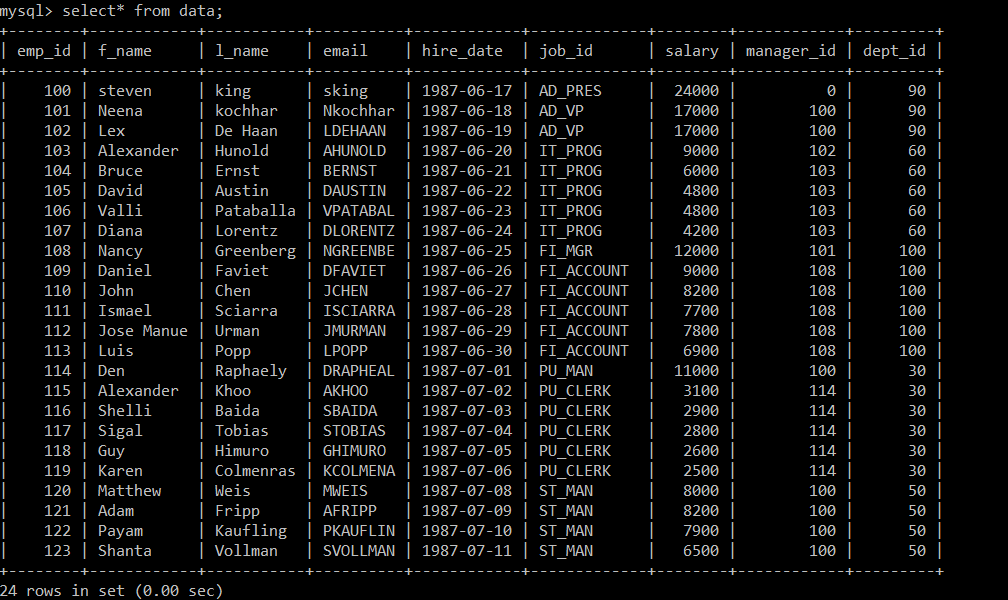
insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (120,'Matthew','Weis','MWEIS',str\_to\_date('08,jul,87','%d,%b,%y'),'ST\_MAN ',8000,100,50);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (121,'Adam','Fripp','AFRIPP',str\_to\_date('09,jul,87','%d,%b,%y'),'ST\_MAN ',8200,100,50);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (122,'Payam','Kaufling','PKAUFLIN',str\_to\_date('10,jul,87','%d,%b,%y'),'ST\_MAN ',7900,100,50);

insert into data(emp\_id,f\_name,l\_name,email,hire\_date,job\_id,salary,manager\_id,dept\_id) values (123,'Shanta','Vollman','SVOLLMAN',str\_to\_date('11,jul,87','%d,%b,%y'),'ST\_MAN ',6500,100,50);

**TABLE AFTER INSERTING DATA:**

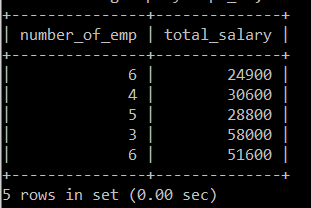


1. **List the number of employees, total salary paid to employees that work in each department.**

mysql> select count(\*) as number\_of\_emp , sum(salary) as total\_salary

from data

group by dept\_id;

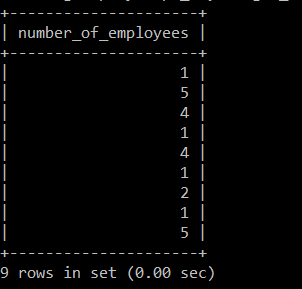


1. **List the number of employees working in each department under each manager.**

mysql> select count(\*) as number\_of\_employees

-> from data

-> group by dept\_id,manager\_id;

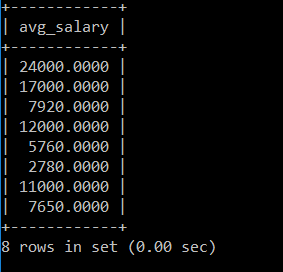


1. **List the average salaries paid to each designation (job\_id).**

mysql> select avg(salary) as avg\_salary

-> from data

-> group by job\_id;



1. **List the manager under whom the most number of employees are working.**

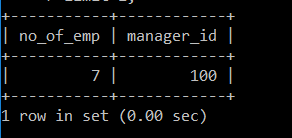
mysql> select count(emp\_id) as no\_of\_emp,manager\_id

-> from data

-> group by manager\_id

-> order by no\_of\_emp desc

-> limit 1;

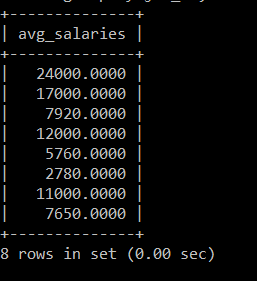


**5. List the average salaries paid to each designation in each department.**

mysql> select avg(salary) as avg\_salaries

-> from data

-> group by job\_id;



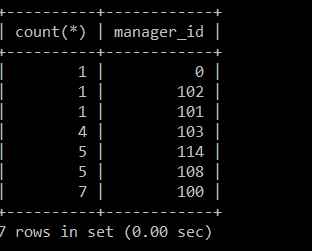
**6. List the number of employees working under each manager in ascending order.**

mysql> select count(\*), manager\_id

-> from data

-> group by manager\_id

-> order by count(\*) asc;

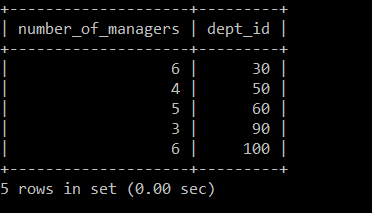


**7. List the number of managers in each department**.

mysql> select count(\*) as number\_of\_managers, dept\_id

-> from data

-> group by dept\_id;



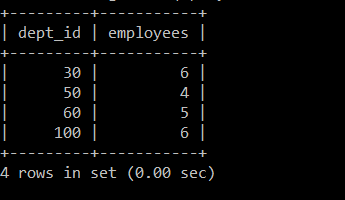
**8. List the departments that has more than 3 employees.**

mysql> select dept\_id, count(\*) as employees

-> from data

-> group by dept\_id

-> having count(\*)>3;



**9. List the department that has the most number of employees.**

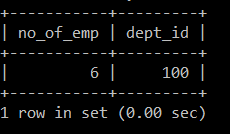
mysql> select count(emp\_id) as no\_of\_emp, dept\_id

-> from data

-> group by dept\_id

-> order by no\_of\_emp desc

-> limit 1;



**10. List the department that the least number of employees.**

mysql> select count(emp\_id) as no\_of\_emp, dept\_id

-> from data

-> group by dept\_id

-> order by no\_of\_emp asc

-> limit 1;

