Assignment-17 Apoorva

Create a table of Employees with below mentioned fields and insert the data and then write the queries to the below questions.

```
EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER
                                                           | HIRE DATE
| JOB ID | SALARY | COMMISSION PCT | MANAGER ID | DEPARTMENT ID |
-----+
    100 | Steven | King | SKING | 515.123.4567 | 1987-06-17 | AD_PRES |
24000.00 l
             0.00
                     0 |
                                     90 I
    101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1987-06-18 | AD VP
              0.00
                      100 |
| 17000.00 |
                               90 |
               | De Haan | LDEHAAN | 515.123.4569 | 1987-06-19 | AD VP
    102 | Lex
17000.00
             0.00 | 100 |
                              90 |
    103 | Alexander | Hunold | AHUNOLD | 590.423.4567
                                                  | 1987-06-20 | IT_PROG
9000.00
             0.00
                     102 |
                               60 |
    104 | Bruce
               | Ernst | BERNST | 590.423.4568 | 1987-06-21 | IT PROG |
            0.00
                   103 |
                             60 l
    105 | David
               | Austin | DAUSTIN | 590.423.4569 | 1987-06-22 | IT PROG |
4800.00
            0.00
                    103 |
                             60 |
    106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1987-06-23 | IT_PROG |
4800.00
            0.00
                    103 |
                             60 |
               | Lorentz | DLORENTZ | 590.423.5567 | 1987-06-24 | IT_PROG
    107 | Diana
             0.00 | 103 |
4200.00
                               60 |
    108 | Nancy
                | Greenberg | NGREENBE | 515.124.4569
                                                    | 1987-06-25 | FI MGR
                      101 |
| 12000.00 |
              0.00
                               100 |
    109 | Daniel | Faviet | DFAVIET | 515.124.4169
                                                | 1987-06-26 | FI ACCOUNT
 9000.00
                     108 |
                              100 l
             0.00
    110 | John
                                               | 1987-06-27 | FI_ACCOUNT |
                | Chen
                        | JCHEN | 515.124.4269
8200.00
            0.00
                    108 |
                             100 |
    111 | Ismael
               | Sciarra | ISCIARRA | 515.124.4369 | 1987-06-28 | FI_ACCOUNT
             0.00 | 108 |
                              100 l
    112 | Jose Manuel | Urman
                           | JMURMAN | 515.124.4469
                                                      | 1987-06-29 |
FI ACCOUNT | 7800.00 | 0.00 | 108 |
                                         100 l
    113 | Luis
               | Popp | LPOPP | 515.124.4567
                                              | 1987-06-30 | FL ACCOUNT |
6900.00
            0.00
                    108 |
                             100 |
    114 | Den
               | Raphaely | DRAPHEAL | 515.127.4561 | 1987-07-01 | PU_MAN
| 11000.00 |
              0.00
                      100 |
                               30 |
    115 | Alexander | Khoo
                         | AKHOO | 515.127.4562 | 1987-07-02 | PU CLERK
3100.00
             0.00
                     114 |
                               30 |
```

mysql> create table employees(EMPLOYEE_ID int , FIRST_NAME varchar(50), LAST_NAME varchar(30), EMAIL varchar(20), PHONE_NUMBER varchar(10), HIRE_DATE date, JOB_ID varchar(20), SALARY double, COMMISSION_PCT int, MANAGER_ID int, DEPARTMENT_ID int); Query OK, 0 rows affected (0.03 sec)

```
mysql> desc employees;
```

```
| Null | Key | Default | Extra |
         Type
+----+
| EMPLOYEE ID | int
                    YES | NULL |
| FIRST_NAME | varchar(50) | YES |
                             NULL
            | varchar(30) | YES | NULL
LAST NAME
         | varchar(20) | YES | NULL |
| EMAIL
| PHONE NUMBER | varchar(10) | YES | NULL |
| HIRE DATE | date
                    YES | NULL |
          | varchar(20) | YES | NULL |
| JOB ID
                   |YES | NULL |
SALARY
          | double
| COMMISSION PCT | int
                      | YES | NULL |
| MANAGER_ID | int
                    YES | NULL |
| DEPARTMENT ID | int
                      | YES |
                             | NULL |
```

Inserting the values:

insert into employees values(100, 'Steven', 'King', 'SKING', 5151234567, '1987-06-17', 'AD_PRES', 24000.00, 0.00, 0, 90);

mysql> insert into employees values(101,' Neena',' Kochhar','NKOCHHAR', 5151234568,' 1987-06-18',' AD_VP', 17000.00, 0.00, 100,90);

mysql> insert into employees values (102,'Lex ', 'De Haan',' LDEHAAN', 5151234569,' 1987-06-19',' AD_VP', 17000.00 , 0.00 , 100 , 90);

mysql> insert into employees values(103 ,' Alexander' , ' Hunold ' , ' AHUNOLD' , 5904234567,'1987-06-20 ',' IT_PROT', 9000.00 , 0.00 , 102 , 60);

insert into employees values(104 ,'Bruce','Ernst', 'BERNST',5904234568 ,'1987-06-21' ,'IT PROG',6000.00 ,0.00 ,103 ,60);

mysql> insert into employees values(105 ,'David' , 'Austin', 'DAUSTIN',5904234569,'1987-06-22 ','IT_PROG',4800.00 ,0.00 ,103 ,60);

mysql> insert into employees values(106,'Valli','Pataballa','VPATABAL',5904234560,'1987-06-23','IT_PROG',4800.00,0.00,103,60);

mysql> insert into employees values(107, 'Diana', 'Lorentz ' ,'DLORENTZ ' ,5904235567 , '1987-06-24' ,'IT_PROG ' ,4200.00 ,0.00 ,103 ,60);

mysql> insert into employees values(108 , 'Nancy' , 'Greenberg' , 'NGREENBE ',5151244569, '1987-06-25' ,'FI_MGR ',12000.00 ,0.00 ,101 ,100);

mysql> insert into employees values(109 ,'Daniel', 'Faviet', 'DFAVIET ',5151244169,'1987-06-26' ,'FL ACCOUNT' ,9000.00 ,0.00 ,108 ,100);

```
mysql> insert into employees values(110, 'John', 'Chen', 'JCHEN ',5151244269,'1987-06-27
','FI ACCOUNT', 8200.00, 0.00, 108,100);
mysql> insert into employees values(111, 'Ismael', 'Sciarra','ISCIARRA', 5151244369, '1987-
06-28', 'FI ACCOUNT', 7700.00, 0.00, 108, 100);
mysgl> insert into employees values(112, 'Jose Manuel ','Urman',' JMURMAN
',5151244469,'1987-06-29', 'FI_ACCOUNT',7800.00,0.00', 108',100');
mysql> insert into employees values(113, 'Luis', 'Popp', 'LPOPP', 5151244567, '1987-06-30'
,'FI ACCOUNT',6900.00,0.00,108,100);
mysql> insert into employees values(114, 'Den', 'Raphaely', 'DRAPHEAL', 5151274561,
'1987-07-01', 'PU MAN',11000.00,0.00,100,30 );
mysql> insert into employees values ( 115 , 'Alexander' , ' Khoo ' , ' AKHOO', 5151274562 , '
1987-07-02', 'PU CLERK', 3100.00, 0.00, 114, 30);
mysql> select * from employees;
----+
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE
-----+
                          | BERNST | 5904234568 | 1987-06-21 | IT PROG
    104 | Bruce
                  | Ernst
6000 |
           0 |
                 103 |
                           60 |
    100 | Steven
                 King
                          | SKING | 5151234567 | 1987-06-17 | AD PRES
24000 |
            0 |
                   0 |
                           90 |
    101 | Neena
                  | Kochhar | NKOCHHAR | 5151234568 | 1987-06-18 | AD VP
              0 |
                    100 |
                              90 |
| 17000 |
    102 | Lex
                           | LDEHAAN | 5151234569 | 1987-06-19 | AD VP
                De Haan
17000 |
                  100 |
            0 |
                          | DAUSTIN | 5904234569 | 1987-06-22 | IT PROG
    105 | David
                 Austin
4800 |
                 103 |
           0 |
    106 | Valli
                | Pataballa | VPATABAL | 5904234560 | 1987-06-23 | IT PROG
4800 |
           0 |
                 103 |
    107 | Diana
                          | DLORENTZ | 5904235567 | 1987-06-24 | IT_PROG
                 Lorentz
4200 |
           0 |
                 103 |
                           60 l
    108 | Nancy
                  | Greenberg | NGREENBE | 5151244569 | 1987-06-25 | FI MGR
| 12000 |
              0 |
                    101 |
                             100 |
    109 | Daniel
                 | Faviet
                          | DFAVIET | 5151244169 | 1987-06-26 | FI ACCOUNT |
9000 |
           0 |
                 108 |
                          100 |
    110 | John
                 | Chen
                          | JCHEN | 5151244269 | 1987-06-27 | FI ACCOUNT |
```

8200 |

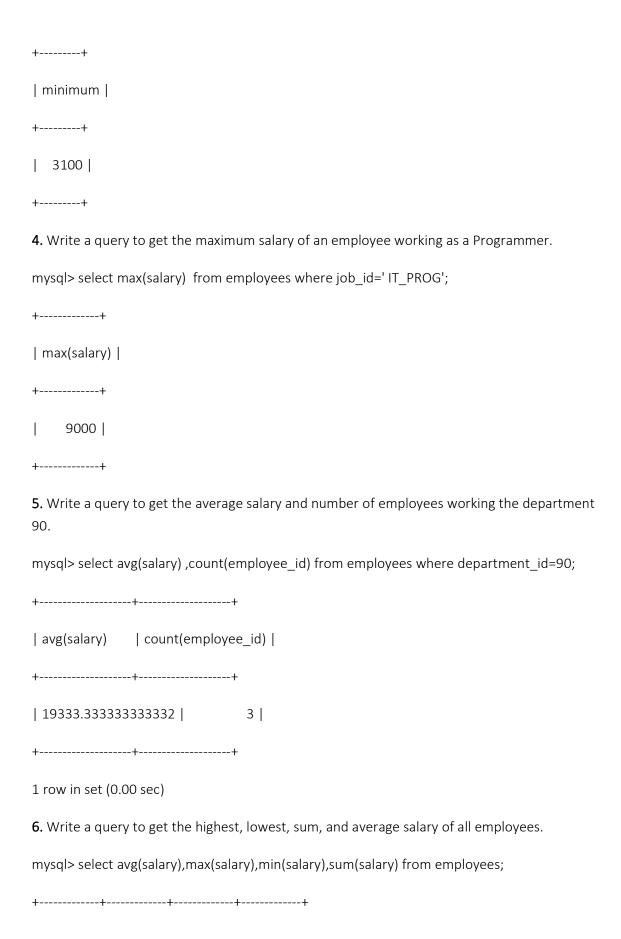
0 |

108 |

100 |

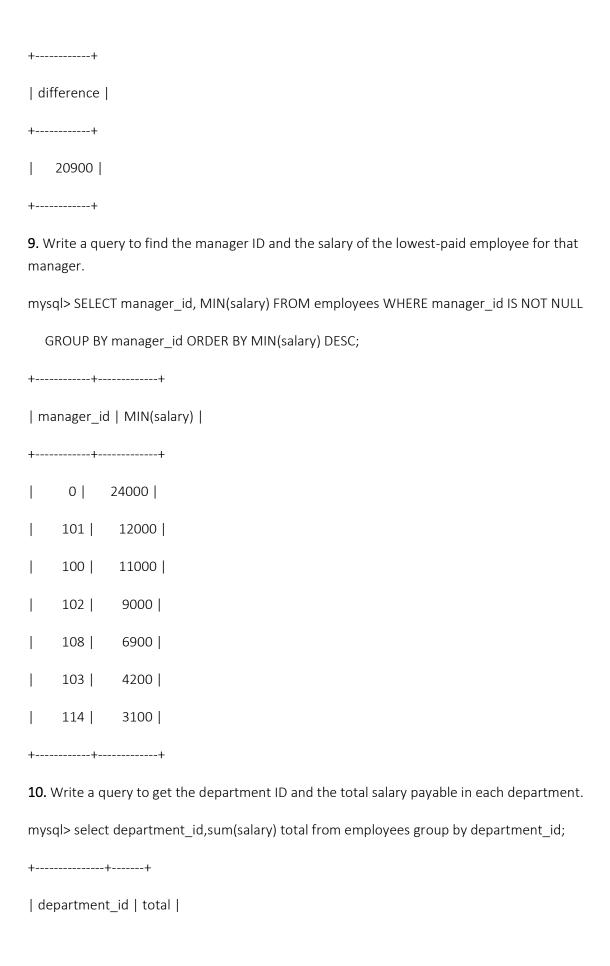
```
FI ACCOUNT | 7800 |
                          0 |
                              108 |
                                         100 |
    111 | Ismael
                  | Sciarra | ISCIARRA | 5151244369 | 1987-06-28 | FI ACCOUNT |
7700 |
           0 |
                  108 |
                           100 |
    115 | Alexander | Khoo
                            | AKHOO | 5151274562 | 1987-07-02 | PU_CLERK |
3100 |
           0 |
                 114 |
                           30 |
    113 | Luis
                 Popp
                          | LPOPP | 5151244567 | 1987-06-30 | FL ACCOUNT |
6900 |
           0 |
                 108 |
                           100 |
     114 | Den
                 | Raphaely | DRAPHEAL | 5151274561 | 1987-07-01 | PU MAN
| 11000 |
              0 |
                    100 |
                              30 |
     103 | Alexander | Hunold | AHUNOLD | 5904234567 | 1987-06-20 | IT_PROG
              0 |
                    102 |
                              60 |
9000 |
-----+
16 rows in set (0.00 sec)
1. Write a query to list the number of jobs available in the employees table
select count(job_id) as number_of_jobs from employees;
+----+
| number of jobs |
+----+
      16 |
+----+
2. Write a query to get the total salaries payable to employees.
Query:
select sum(salary) as total from employees;
+----+
| total |
+----+
| 152500 |
+----+
3. Write a query to get the minimum salary from employees table.
Query:
select min(salary) as minimum from employees;
```

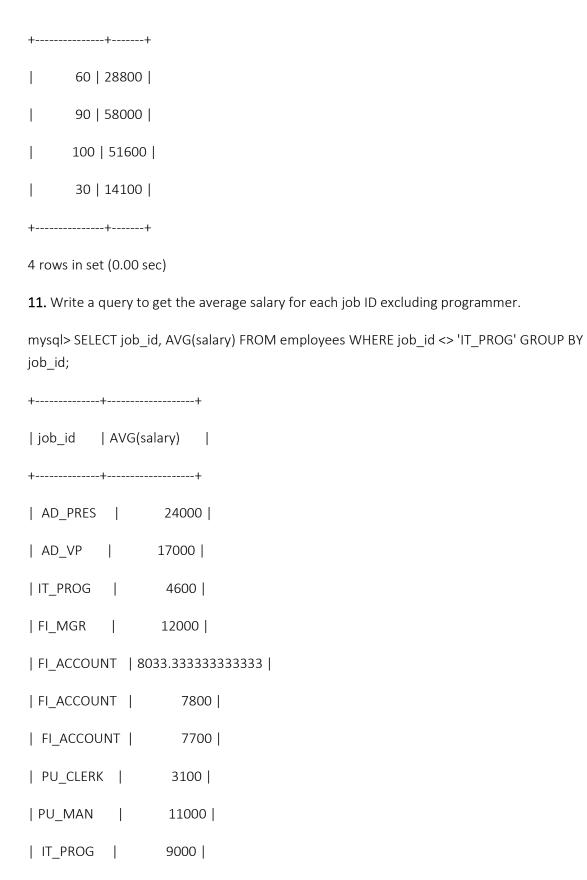
112 | Jose Manuel | Urman | JMURMAN | 5151244469 | 1987-06-29 |



```
| avg(salary) | max(salary) | min(salary) | sum(salary) |
+-----+
9531.25 | 24000 | 3100 | 152500 |
+-----+
7. Write a query to get the number of employees with the same job.
mysql> SELECT job_id, COUNT(*) FROM employees GROUP BY job_id;
+----+
| job_id | COUNT(*) |
+----+
| IT_PROG | 1 |
| AD_PRES | 1 |
| AD_VP | 2 |
| IT_PROG | 3 |
| FI_MGR | 1 |
| FI_ACCOUNT | 3 |
| FI_ACCOUNT | 1 |
| FI_ACCOUNT | 1 |
| PU_CLERK | 1 |
| PU_MAN | 1 |
| IT_PROG | 1 |
+----+
8. Write a query to get the difference between the highest and lowest salaries.
```

mysql> select max(salary)-min(salary) difference from employees;





+----+

12. Write a query to get the total salary, maximum, minimum, average salary of employees (job ID wise), for department ID 90 only.

mysql> select job_id, min(salary),max(salary),avg(salary),sum(salary) from employees where department_id=90 group by job_id;

```
+-----+
| job_id | min(salary) | max(salary) | avg(salary) | sum(salary) |
+-----+
| AD_PRES | 24000 | 24000 | 24000 | 24000 |
| AD_VP | 17000 | 17000 | 17000 | 34000 |
+-----+
2 rows in set (0.00 sec)
```

13. Write a query to get the job ID and maximum salary of the employees where maximum salary is greater than or equal to \$4000.

mysql> SELECT job_id, MAX(salary) FROM employees GROUP BY job_id

HAVING MAX(salary) >=4000;

14. Write a query to get the average salary for all departments employing more than 10 employees.

mysql> SELECT department_id, AVG(salary), COUNT(*) FROM employees GROUP BY department_id HAVING COUNT(*) > 10;

Empty set (0.00 sec)