assignment 3
1. Write a query to display the names (first_name, last_name) using alias name “First Name", "Last Nam

```
mysql> select first_name "firstName", last_name "lastName" from emp;
+-----------+-----------+
| firstName | lastName  |
+-----------+-----------+
| steven    | king      |
| neena     | kochhar   |
| lex       | de haan   |
| alexander | hunold    |
| bruce     | ernst     |
| david     | austin    |
| valli     | patavalla |
| diana     | lorentz   |
| nancy     | greenberg |
| daniel    | faviet    |
+-----------+-----------+
```

2. Write a query to get unique department ID from employee table

```
mysql> select count(distinct department_id) from emp
    -> ;
+------------------------------+
| count(distinct department_id) |
+------------------------------+
|                            4 |
+------------------------------+
```

3. Write a query to get all employee details from the employee table order by first name, descending

```
mysql> select * from emp order by first_name desc;
+--------+------------+-----------+---------------+------------+------------
+----------+----------+------------+------------+---------------+
| emp_id | first_name | last_name | email         | phone_no   | hire_date  |
job_id   | salary   | commission | manager_id | department_id |
+--------+------------+-----------+---------------+------------+------------
+----------+----------+------------+------------+---------------+
|    106 | valli      | patavalla | not available | 5904234560 | 1987-06-23 |
it_prog  |  4620.00 |       0.10 |        114 |            30 |
|    100 | steven     | king      | not available | 5121234567 | 1987-06-17 |
ad-press | 26400.00 |       0.10 |        200 |            10 |
|    101 | neena      | kochhar   | not available | 5151234568 | 1987-06-18 |
ad-vp    | 18700.00 |       0.10 |        200 |            10 |
|    108 | nancy      | greenberg | not available | 5151244569 | 1987-06-25 |
sa_man   | 13200.00 |       0.10 |        145 |            80 |
|    102 | lex        | de haan   | not available | 5151234569 | 1987-06-19 |
ad-vp    | 18700.00 |       0.10 |        200 |            10 |
|    107 | diana      | lorentz   | not available | 5904234560 | 1987-06-24 |
it_prog  |  4620.00 |       0.10 |        114 |            30 |
|    105 | david      | austin    | not available | 5904234569 | 1987-06-22 |
it_prog  |  5280.00 |       0.10 |        103 |            60 |
|    109 | daniel     | faviet    | not available | 5151244169 | 1987-06-26 |
sa_man   |  9900.00 |       0.10 |        145 |            80 |
|    104 | bruce      | ernst     | not available | 5904234568 | 1987-06-21 |
it_prog  |  6600.00 |       0.10 |        103 |            60 |
|    103 | alexander  | hunold    | not available | 5904234567 | 1987-06-20 |
it_prog  |  9900.00 |       0.10 |        103 |            60 |
+--------+------------+-----------+---------------+------------+------------
+----------+----------+------------+------------+---------------+
```

5. Write a query to get the employee ID, names (first_name, last_name), salary in ascending order of salary.

```
mysql> select emp_id,first_name,last_name,salary from emp order by salary;
```

```
+--------+------------+-----------+----------+
| emp_id | first_name | last_name | salary   |
+--------+------------+-----------+----------+
|    106 | valli      | patavalla |  4620.00 |
|    107 | diana      | lorentz   |  4620.00 |
|    105 | david      | austin    |  5280.00 |
|    104 | bruce      | ernst     |  6600.00 |
|    103 | alexander  | hunold    |  9900.00 |
|    109 | daniel     | faviet    |  9900.00 |
|    108 | nancy      | greenberg | 13200.00 |
|    101 | neena      | kochhar   | 18700.00 |
|    102 | lex        | de haan   | 18700.00 |
|    100 | steven     | king      | 26400.00 |
+--------+------------+-----------+----------+
```

6. Write a query to get the total salaries payable to employees.

```
mysql> select sum(salary) from emp;
+-------------+
| sum(salary) |
+-------------+
|   117920.00 |
+-------------+
```

7. Write a query to get the maximum and minimum salary from employees table.

```
mysql> select min(salary) "minimumSalary" from emp;
+---------------+
| minimumSalary |
+---------------+
|       4620.00 |
+---------------+
mysql> select max(salary) "maximumSalary" from emp;
+---------------+
| maximumSalary |
+---------------+
|      26400.00 |
+---------------+
```

8. Write a query to get the average salary and number of employees in the employees table

```
mysql> select avg(salary) from emp;
+--------------+
| avg(salary)  |
+--------------+
| 11792.000000 |
+--------------+
1 row in set (0.00 sec)

mysql> select count(emp_id) from emp;
+---------------+
| count(emp_id) |
+---------------+
|            10 |
+---------------+
```

9. Write a query to get the number of employees working with the company.

```
mysql> select count(*) from emp;
+----------+
| count(*) |
+----------+
|       10 |
+----------+
```

10.Write a query to get the number of jobs available in the employees table

```
mysql> select count(distinct job_id) from emp;
+------------------------+
| count(distinct job_id) |
```

```
+------------------------+
|                      4 |
+------------------------+
```

11.Write a query to select first 10 records from a table.

```
mysql> select * from emp limit 10;
+--------+------------+-----------+--------------+-------------+------------
+----------+----------+------------+------------+---------------+
| emp_id | first_name | last_name | email         | phone_no   | hire_date  |
job_id   | salary   | commission | manager_id | department_id |
+--------+------------+-----------+--------------+-------------+------------
+----------+----------+------------+------------+---------------+
|    100 | steven     | king      | not available | 5121234567 | 1987-06-17 |
ad-press | 26400.00 |       0.10 |        200 |            10 |
|    101 | neena      | kochhar   | not available | 5151234568 | 1987-06-18 |
ad-vp    | 18700.00 |       0.10 |        200 |            10 |
|    102 | lex        | de haan   | not available | 5151234569 | 1987-06-19 |
ad-vp    | 18700.00 |       0.10 |        200 |            10 |
|    103 | alexander  | hunold    | not available | 5904234567 | 1987-06-20 |
it_prog  |  9900.00 |       0.10 |        103 |            60 |
|    104 | bruce      | ernst     | not available | 5904234568 | 1987-06-21 |
it_prog  |  6600.00 |       0.10 |        103 |            60 |
|    105 | david      | austin    | not available | 5904234569 | 1987-06-22 |
it_prog  |  5280.00 |       0.10 |        103 |            60 |
|    106 | valli      | patavalla | not available | 5904234560 | 1987-06-23 |
it_prog  |  4620.00 |       0.10 |        114 |            30 |
|    107 | diana      | lorentz   | not available | 5904234560 | 1987-06-24 |
it_prog  |  4620.00 |       0.10 |        114 |            30 |
|    108 | nancy      | greenberg | not available | 5151244569 | 1987-06-25 |
sa_man   | 13200.00 |       0.10 |        145 |            80 |
|    109 | daniel     | faviet    | not available | 5151244169 | 1987-06-26 |
sa_man   |  9900.00 |       0.10 |        145 |            80 |
+--------+------------+-----------+--------------+-------------+------------
+----------+----------+------------+------------+---------------+
```

12.Write a query to display the name (first_name, last_name) and salary for all employees whose salary is not in the range $10,000 through $15,000

```
mysql> select * from emp where salary not between 10000 and 15000;
+--------+------------+-----------+--------------+-------------+------------
+----------+----------+------------+------------+---------------+
| emp_id | first_name | last_name | email         | phone_no   | hire_date  |
job_id   | salary   | commission | manager_id | department_id |
+--------+------------+-----------+--------------+-------------+------------
+----------+----------+------------+------------+---------------+
|    100 | steven     | king      | not available | 5121234567 | 1987-06-17 |
ad-press | 26400.00 |       0.10 |        200 |            10 |
|    101 | neena      | kochhar   | not available | 5151234568 | 1987-06-18 |
ad-vp    | 18700.00 |       0.10 |        200 |            10 |
|    102 | lex        | de haan   | not available | 5151234569 | 1987-06-19 |
ad-vp    | 18700.00 |       0.10 |        200 |            10 |
|    103 | alexander  | hunold    | not available | 5904234567 | 1987-06-20 |
it_prog  |  9900.00 |       0.10 |        103 |            60 |
|    104 | bruce      | ernst     | not available | 5904234568 | 1987-06-21 |
it_prog  |  6600.00 |       0.10 |        103 |            60 |
|    105 | david      | austin    | not available | 5904234569 | 1987-06-22 |
it_prog  |  5280.00 |       0.10 |        103 |            60 |
|    106 | valli      | patavalla | not available | 5904234560 | 1987-06-23 |
it_prog  |  4620.00 |       0.10 |        114 |            30 |
|    107 | diana      | lorentz   | not available | 5904234560 | 1987-06-24 |
it_prog  |  4620.00 |       0.10 |        114 |            30 |
|    109 | daniel     | faviet    | not available | 5151244169 | 1987-06-26 |
sa_man   |  9900.00 |       0.10 |        145 |            80 |
+--------+------------+-----------+--------------+-------------+------------
+----------+----------+------------+------------+---------------+
```

13.Write a query to display the name (first_name, last_name) and department ID of all employees in departments 30 or 100 in ascending

order
mysql> select first_name, last_name , department_id from emp where department_id
=30 or department_id=100 order by department_id desc;
+------------+-----------+---------------+
| first_name | last_name | department_id |
+------------+-----------+---------------+
| diana | lorentz | 30 |
| valli | patavalla | 30 |
+------------+-----------+---------------+
14.Write a query to display the name (first_name, last_name) and salary for
all employees whose salary is not in the range $10,000 through $15,000
and are in department 30 or 100

mysql> select first_name,last_name,salary from emp where salary not between
10000 and 15000 and department_id=30 or department_id=100;
+------------+-----------+---------+
| first_name | last_name | salary |
+------------+-----------+---------+
| valli | patavalla | 4620.00 |
| diana | lorentz | 4620.00 |
+------------+-----------+---------+
15.Write a query to display the name (first_name, last_name) and hire date
for all employees who were hired in 1987.

mysql> select first_name,last_name ,hire_date from emp where hire_date between
"1987-01-01" and "1987-12-31";
+------------+-----------+------------+
| first_name | last_name | hire_date |
+------------+-----------+------------+
steven	king	1987-06-17
neena	kochhar	1987-06-18
lex	de haan	1987-06-19
alexander	hunold	1987-06-20
bruce	ernst	1987-06-21
david	austin	1987-06-22
valli	patavalla	1987-06-23
diana	lorentz	1987-06-24
nancy	greenberg	1987-06-25
daniel	faviet	1987-06-26
+------------+-----------+------------+
16.Write a query to display the first_name of all employees who have both
"b" and "c" in their first name

mysql> select first_name,last_name from emp where first_name like "%b%" and
first_name like "%c%";
+------------+-----------+
| first_name | last_name |
+------------+-----------+
| bruce | ernst |
+------------+-----------+
17.Write a query to display the last name, job, and salary for all employees
whose job is that of a Programmer or a Shipping Clerk, and whose salary
is not equal to $4,500, $10,000, or $15,000.
mysql> select * from emp where department_id in(60,50) and salary not
in(4500,10000,15000);
+--------+------------+-----------+---------------+------------+------------
+---------+---------+------------+------------+---------------+
| emp_id | first_name | last_name | email | phone_no | hire_date |
job_id | salary | commission | manager_id | department_id |
+--------+------------+-----------+---------------+------------+------------
+---------+---------+------------+------------+---------------+
| 103 | alexander | hunold | not available | 5904234567 | 1987-06-20 |
it_prog | 9900.00 | 0.10 | 103 | 60 |
| 104 | bruce | ernst | not available | 5904234568 | 1987-06-21 |

```
it_prog | 6600.00 |       0.10 |        103 |            60 |
|    105 | david      | austin    | not available | 5904234569 | 1987-06-22 |
it_prog | 5280.00 |       0.10 |        103 |            60 |
+--------+------------+-----------+---------------+------------+------------
+---------+---------+------------+------------+---------------+
```

18.Write a query to display the last name of employees whose names have exactly 6 characters

```
mysql> select last_name from emp where first_name like "______";
+-----------+
| last_name |
+-----------+
| king      |
| faviet    |
+-----------+
```

19.Write a query to display the last name of employees having 'e' as the third character

```
mysql> select last_name from emp where last_name like "__e%";
+-----------+
| last_name |
+-----------+
| greenberg |
+-----------+
```

20.Write a query to display the jobs/designations available in the employees table.

```
mysql> select distinct job_id from emp;
+----------+
| job_id   |
+----------+
| ad-press |
| ad-vp    |
| it_prog  |
| sa_man   |
+----------+
```

21.Write a query to select all record from employees where last name in 'BLAKE', 'SCOTT', 'KING' and 'FORD

```
mysql> select * from emp where last_name in("blake","scott","king","ford"
);
+--------+------------+-----------+---------------+------------+------------
+----------+----------+------------+------------+---------------+
| emp_id | first_name | last_name | email         | phone_no   | hire_date  |
job_id   | salary   | commission | manager_id | department_id |
+--------+------------+-----------+---------------+------------+------------
+----------+----------+------------+------------+---------------+
|    100 | steven     | king      | not available | 5121234567 | 1987-06-17 |
ad-press | 26400.00 |       0.10 |        200 |            10 |
+--------+------------+-----------+---------------+------------+------------
+----------+----------+------------+------------+---------------+
```