

Q1.

```
mysql> select first_name as "first name", last_name as "last name" from emp
```

```
loyee;
```

```
+-----+-----+
| first name | last name |
+-----+-----+
| Steven    | King      |
| Neena     | Kochhar   |
| Lex       | De Haan   |
| Alexander | Hunold    |
| Bruce     | Ernst     |
| David     | Austin    |
| Valli     | Pataballa |
| Diana     | Lorentz   |
| Nancy     | Greenberg |
| Daniel    | Faviet    |
+-----+-----+
```

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

Q2.

```
mysql> select * from employee where DEPARTMENT_ID = 10;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--|-----+-----+
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL      | PHONE_NUMBER | HIRE_DATE | AD | JOB_ID | SALARY      | COMMISSION_PCT | MANAGER_ID | DEPARTMENT_ID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--|-----+-----+
| 100 | Steven | King | not available | 5151234567 | 1987-06-17 | AD | pres | 26400.000000000000000004 | 0.1 | 200 | 10 |
| 101 | Neena | Kochhar | not available | 5151234568 | 1987-06-18 | AD | VP | 18700 | 0.1 | 200 | 10 |
```

102	Lex	De Haan	not available	5151234569	1987-06-19	AD_VP
18700	0.1	200	10			

3 rows in set (0.00 sec)

Q3.

```
ysql> select * from employee order by FIRST_NAME desc;
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
-------------	------------	-----------	-------	--------------	-----------	--------	--------	----------------	------------	---------------

106	Valli	Pataballa	not available	5904234560	1987-06-23	IT_PROG	5280	0.1	103	60
100	Steven	King	not available	5151234567	1987-06-17	AD_pres	26400.00000000000004	0.1	200	10
101	Neena	Kochhar	not available	5151234568	1987-06-18	AD_VP	18700	0.1	200	10
108	Nancy	Greenberg	not available	5151244569	1987-06-25	SA_MAN	13200.00000000000002	0.1	145	80
102	Lex	De Haan	not available	5151234569	1987-06-19	AD_VP	18700	0.1	200	10
107	Diana	Lorentz	not available	5904235569	1987-06-24	IT_PROG	4620	0.1	114	30
105	David	Austin	not available	5904234569	1987-06-22	IT_PROG	5280	0.1	103	60
109	Daniel	Faviet	not available	5151244169	1987-06-26	SA_MAN	9900	0.1	145	80
104	Bruce	Ernst	not available	5904234568	1987-06-21	IT_PROG	6600.00000000000001	0.1	103	60
103	Alexander	Hunold	not available	5904234567	1987-06-20	IT_PROG				

9900 | 0.1 | 103 | 60 |

+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+

10 rows in set (0.00 sec)

Q4.

mysql> select first_name as first_name,
-> last_name,salary,salary*0.15 as pf from employee;

+-----+-----+-----+-----+
| first_name | last_name | salary | pf |
+-----+-----+-----+-----+
Steven	King	26400.00000000000004	3960.00000000000005
Neena	Kochhar	18700	2805
Lex	De Haan	18700	2805
Alexander	Hunold	9900	1485
Bruce	Ernst	6600.00000000000001	990.00000000000001
David	Austin	5280	792
Valli	Pataballa	5280	792
Diana	Lorentz	4620	693
Nancy	Greenberg	13200.00000000000002	1980.00000000000002
Daniel	Faviet	9900	1485
+-----+-----+-----+-----+

10 rows in set (0.00 sec)

Q5.

mysql> select employee_id as employee_id,
-> first_name as first_name,

-> last_name,
 -> salary
 -> from employee
 -> order by salary;

```
+-----+-----+-----+-----+
| employee_id | first_name | last_name | salary      |
+-----+-----+-----+-----+
|    107 | Diana    | Lorentz   |      4620 |
|    105 | David    | Austin    |      5280 |
|    106 | Valli    | Pataballa |      5280 |
|    104 | Bruce    | Ernst     | 6600.000000000001 |
|    103 | Alexander | Hunold    |      9900 |
|    109 | Daniel   | Faviet    |      9900 |
|    108 | Nancy    | Greenberg | 13200.000000000002 |
|    101 | Neena    | Kochhar   |     18700 |
|    102 | Lex      | De Haan   |     18700 |
|    100 | Steven   | King      | 26400.000000000004 |
+-----+-----+-----+-----+

10 rows in set (0.00 sec)
```

Q6.

mysql> select sum(salary) from employee;

```
+-----+
| sum(salary) |
+-----+
|    118580 |
+-----+

1 row in set (0.03 sec)
```

Q7.

```
mysql> select max(salary) as "Maximum Salary" ,min(salary) as "Minimum Salary" from employee;
```

```
+-----+-----+
| Maximum Salary | Minimum Salary |
+-----+-----+
| 26400.000000000004 | 4620 |
+-----+-----+
1 row in set (0.03 sec)
```

Q8.

```
mysql> select count(*) "Total No. Of Employee" , avg(salary) "Average Salary" from employee;
```

```
+-----+-----+
| Total No. Of Employee | Average Salary |
+-----+-----+
| 10 | 11858 |
+-----+-----+
1 row in set (0.00 sec)
```

Q9.

```
mysql> select count(*) "Total No. Of Employee" from employee;
```

```
+-----+
| Total No. Of Employee |
+-----+
| 10 |
+-----+
1 row in set (0.03 sec)
```

Q10.

Q11.

```
mysql> select *from employee
```

```
-> limit 10;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL      | PHONE_NUMBER | HIRE_DATE | AD_VP |
JOB_ID | SALARY      | COMMISSION_PCT | MANAGER_ID | DEPARTMENT_ID |
+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+
|      100 | Steven   | King     | not available | 5151234567 | 1987-06-17 | AD_pres |
26400.00000000000004 |      0.1 |      200 |      10 |
|      101 | Neena    | Kochhar  | not available | 5151234568 | 1987-06-18 | AD_VP |
18700 |      0.1 |      200 |      10 |
|      102 | Lex      | De Haan  | not available | 5151234569 | 1987-06-19 | AD_VP |
18700 |      0.1 |      200 |      10 |
|      103 | Alexander | Hunold   | not available | 5904234567 | 1987-06-20 | IT_PROG |
9900 |      0.1 |      103 |      60 |
|      104 | Bruce    | Ernst    | not available | 5904234568 | 1987-06-21 | IT_PROG |
6600.00000000000001 |      0.1 |      103 |      60 |
|      105 | David    | Austin   | not available | 5904234569 | 1987-06-22 | IT_PROG |
5280 |      0.1 |      103 |      60 |
|      106 | Valli    | Pataballa | not available | 5904234560 | 1987-06-23 | IT_PROG |
5280 |      0.1 |      103 |      60 |
|      107 | Diana    | Lorentz  | not available | 5904235569 | 1987-06-24 | IT_PROG |
4620 |      0.1 |      114 |      30 |
|      108 | Nancy    | Greenberg | not available | 5151244569 | 1987-06-25 | SA_MAN |
13200.00000000000002 |      0.1 |      145 |      80 |
|      109 | Daniel   | Favieta  | not available | 5151244169 | 1987-06-26 | SA_MAN |
```

```
9900 |      0.1 |   145 |    80 |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+
```

10 rows in set (0.00 sec)

Q12.

```
mysql> select first_name "First Name" , last_name "Last Name " , salary from employee where salary
not between
```

```
n 200 and 3000
```

```
-> ;
```

```
+-----+-----+-----+
```

```
| First Name | Last Name | salary      |
```

```
+-----+-----+-----+
```

```
| Steven    | King     | 26400.000000000004 |
```

```
| Neena     | Kochhar  |      18700 |
```

```
| Lex       | De Haan  |      18700 |
```

```
| Alexander | Hunold   |      9900 |
```

```
| Bruce     | Ernst    | 6600.000000000001 |
```

```
| David     | Austin   |      5280 |
```

```
| Valli     | Pataballa |      5280 |
```

```
| Diana     | Lorentz  |      4620 |
```

```
| Nancy     | Greenberg | 13200.000000000002 |
```

```
| Daniel    | Faviet   |      9900 |
```

```
+-----+-----+-----+
```

10 rows in set (0.03 sec)

Q13.

```
mysql> select first_name "First Name " , last_name "Last Name " , department_id from employee
e where department_id between 30 and 100
```

-> ;

First Name	Last Name	department_id
Alexander	Hunold	60
Bruce	Ernst	60
David	Austin	60
Valli	Pataballa	60
Diana	Lorentz	30
Nancy	Greenberg	80
Daniel	Faviet	80

7 rows in set (0.00 sec)

Q14.

mysql> select first_name "First Name ", last_name "Last Name ", department_id from employee
where department_id between 30 and 100;

First Name	Last Name	department_id
Alexander	Hunold	60
Bruce	Ernst	60
David	Austin	60
Valli	Pataballa	60
Diana	Lorentz	30
Nancy	Greenberg	80
Daniel	Faviet	80

7 rows in set (0.00 sec)

Q15.

```
mysql> select first_name "First Name " , last_name "Last Name " , HIRE_DATE "Hired Date " fr  
om employee where HIRE_DATE= "1987-01-01";
```

Empty set (0.03 sec)

```
mysql> select first_name "First Name " , last_name "Last Name " , HIRE_DATE "HIRE DATE " from  
employee where
```

```
HIRE_DATE between "1987-01-01"and "2024-01-01";
```

```
+-----+-----+-----+  
| 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     | Pataballa | 1987-06-23 |  
| Diana     | Lorentz   | 1987-06-24 |  
| Nancy     | Greenberg | 1987-06-25 |  
| Daniel    | Faviet    | 1987-06-26 |  
+-----+-----+-----+
```

10 rows in set (0.00 sec)

Q16.

```
mysql> select *from employee
```

```
-> where first_name like '%b%' and first_name like '%c%';
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+  
--+-----+-----+
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
-------------	------------	-----------	-------	--------------	-----------	--------	--------	----------------	------------	---------------

104	Bruce	Ernst	not available	5904234568	1987-06-21	IT_PROG	6600.00000000000001	0.1	103	60
-----	-------	-------	---------------	------------	------------	---------	---------------------	-----	-----	----

104	Bruce	Ernst	not available	5904234568	1987-06-21	IT_PROG	6600.00000000000001	0.1	103	60
-----	-------	-------	---------------	------------	------------	---------	---------------------	-----	-----	----

104	Bruce	Ernst	not available	5904234568	1987-06-21	IT_PROG	6600.00000000000001	0.1	103	60
-----	-------	-------	---------------	------------	------------	---------	---------------------	-----	-----	----

1 row in set (0.00 sec)

Q17.

```
mysql> select last_name,job_id,salary
```

```
-> from employee
```

```
-> where(job_id='programmer' or job_id ='shipping clerk')
```

```
-> and salary not in (4500,10000,15000);
```

Empty set (0.03 sec)

Q18.

```
mysql> select last_name
```

```
-> from employee
```

```
-> where length(last_name)=6;
```

last_name

Hunold

Austin

Faviet

Faviet

Faviet

Faviet

3 rows in set (0.03 sec)

Q19.

```
mysql> select last_name
```

```
-> from employee
```

```
-> where last_name like '__e%';
```

```
+-----+
```

```
| last_name |
```

```
+-----+
```

```
| Greenberg |
```

```
+-----+
```

1 row in set (0.00 sec)

Q20.

```
mysql> select distinct job_id
```

```
-> from employee;
```

```
+-----+
```

```
| job_id |
```

```
+-----+
```

```
| AD_pres |
```

```
| AD_VP   |
```

```
| IT_PROG |
```

```
| SA_MAN  |
```

```
+-----+
```

4 rows in set (0.03 sec)

Q21.

```
mysql> select *from employee
```

-> where last_name in ('blake','scott','king','ford');

```
+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL      | PHONE_NUMBER | HIRE_DATE |
JOB_ID  | SALARY      | COMMISSION_PCT | MANAGER_ID | DEPARTMENT_ID |
+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+
|      100 | Steven   | King     | not available | 5151234567 | 1987-06-17 | AD_pres |
26400.000000000000000004 |      0.1 |      200 |          10 |
+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+
1 row in set (0.00 sec)
```