```
mysql> create database assignments;

Query OK, 1 row affected (0.10 sec)

mysql> use assignments;

Database changed

mysql> create table dept(dept_id int , dept_name varchar(30), dept_block varchar(30));

mysql> insert into dept values(1, "Computer Science", "B-Block"),

    -> (2, "Information Technology","C-Block"),

    -> (3, "Mechanical","A-Block"),

    -> (4, "Electronic Communication","D-Block");

Query OK, 4 rows affected (0.11 sec)

Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from dept;

+---------+------------------------+------------+
| dept_id | dept_name              | dept_block |
+---------+------------------------+------------+
|      1  | Computer Science       | B-Block    |
|      2  | Information Technology  | C-Block    |
|      3  | Mechanical             | A-Block    |
|      4  | Electronic Communication | D-Block  |
+---------+------------------------+------------+

mysql> create table emp(

    -> id int primary key,

    -> name varchar(30),

    -> dept_id int,

    -> birth date,

    -> foreign key(dept_id) references dept(dept_id));

Query OK, 0 rows affected (0.57 sec)

mysql> insert into emp values

    -> (2, "John smith", 1, '1993-02-07'),

    -> (3, "Gal Rao", 4, '1992-09-11'),

    -> (4, "Jakey Smith", 2, '1990-08-31'),

    -> (5, "Rama Saho", 1, '1994-12-09'),

    -> (6, "Maria Gaga", 4, '1993-10-09');

Query OK, 5 rows affected (0.12 sec)
```

Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from emp;

```
+----+--------------+---------+------------+
| id | name         | dept_id | birth      |
+----+--------------+---------+------------+
|  1 | maria gloria |       2 | 1994-03-12 |
|  2 | John smith   |       1 | 1993-02-07 |
|  3 | Gal Rao      |       4 | 1992-09-11 |
|  4 | Jakey Smith  |       2 | 1990-08-31 |
|  5 | Rama Saho    |       1 | 1994-12-09 |
|  6 | Maria Gaga   |       4 | 1993-10-09 |
+----+--------------+---------+------------+
```

6 rows in set (0.00 sec)

Q1. mysql> select name, birth, dept_name, dept_block from emp join dept where emp.dept_id=dept.dept_id;

```
+--------------+------------+-------------------------+------------+
| name         | birth      | dept_name               | dept_block |
+--------------+------------+-------------------------+------------+
| Maria Gloria | 1994-03-12 | Information Technology   | C-Block    |
| John Smith   | 1993-02-07 | Computer Science         | B-Block    |
| Gal Rao      | 1992-09-11 | Electronic Communication | D-Block    |
| Jakey Smith  | 1990-08-31 | Information Technology   | C-Block    |
| Rama Saho    | 1994-12-09 | Computer Science         | B-Block    |
| Maria Gaga   | 1993-10-09 | Electronic Communication | D-Block    |
+--------------+------------+-------------------------+------------+
```

6 rows in set (0.00 sec)

mysql> create table fname(name varchar(30));

Query OK, 0 rows affected (0.54 sec)

mysql> insert into fname values

   -> ("Maria"),

   -> ("John"),

   -> ("Jakey"),

   -> ("Rama"),

-> ("Maria");

Query OK, 5 rows affected (0.14 sec)

Records: 5 Duplicates: 0 Warnings: 0

Q1.

Q2. mysql> select * from fname where name like"____a";

```
+-------+
| name  |
+-------+
| Maria |
| Maria |
+-------+
```

2 rows in set (0.00 sec)

Q3. mysql> select YEAR(curdate())-YEAR(birth) as age from emp limit 5;

```
+------+
| age  |
+------+
|   30 |
|   31 |
|   32 |
|   34 |
|   30 |
+------+
```

5 rows in set (0.00 sec)

Q4. mysql> CREATE TABLE employees (

    ->   Employee_id INT PRIMARY KEY,

    ->   First_name VARCHAR(50),

    ->   Last_name VARCHAR(50),

    ->   Salary INT,

    ->   Joining_date DATE,

    ->   Department VARCHAR(50)

    ->);

Query OK, 0 rows affected (0.46 sec)

mysql> INSERT INTO employees (Employee_id, First_name, Last_name, Salary, Joining_date, Department) VALUES

   -> (1, 'Bob', 'Kinto', 1000000, '2019-01-20', 'Finance'),

   -> (2, 'Jerry', 'Kansxo', 6000000, '2019-01-15', 'IT'),

   -> (3, 'Philip', 'Jose', 8900000, '2019-02-05', 'Banking'),

   -> (4, 'John', 'Abraham', 2000000, '2019-02-25', 'Insurance'),

   -> (5, 'Michael', 'Mathew', 2200000, '2019-02-28', 'Finance'),

   -> (6, 'Alex', 'chreketo', 4000000, '2019-05-10', 'IT'),

   -> (7, 'Yohan', 'Soso', 1230000, '2019-06-20', 'Banking');

Query OK, 7 rows affected (0.09 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> CREATE TABLE rewards (

   ->   Employee_ref_id INT,

   ->   date_reward DATE,

   ->   amount INT

   ->);

Query OK, 0 rows affected (0.42 sec)

mysql> INSERT INTO rewards (Employee_ref_id, date_reward, amount) VALUES

   -> (1, '2019-05-11', 1000),

   -> (2, '2019-02-15', 5000),

   -> (3, '2019-04-22', 2000),

   -> (1, '2019-06-20', 8000);

Query OK, 4 rows affected (0.10 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select * from employees;

```
+-------------+------------+-----------+---------+--------------+------------+
| Employee_id | First_name | Last_name | Salary  | Joining_date | Department |
+-------------+------------+-----------+---------+--------------+------------+
|           1 | Bob        | Kinto     | 1000000 | 2019-01-20   | Finance    |
|           2 | Jerry      | Kansxo    | 6000000 | 2019-01-15   | IT         |
|           3 | Philip     | Jose      | 8900000 | 2019-02-05   | Banking    |
|           4 | John       | Abraham   | 2000000 | 2019-02-25   | Insurance  |
```

```
|       5 | Michael   | Mathew   | 2200000 | 2019-02-28  | Finance   |
|       6 | Alex      | chreketo | 4000000 | 2019-05-10  | IT        |
|       7 | Yohan     | Soso     | 1230000 | 2019-06-20  | Banking   |
+------------+-----------+----------+---------+-------------+-----------+
7 rows in set (0.00 sec)
```

mysql> select First_name, Last_name from employees;

```
+-----------+-----------+
| First_name | Last_name |
+-----------+-----------+
| Bob       | Kinto     |
| Jerry     | Kansxo    |
| Philip    | Jose      |
| John      | Abraham   |
| Michael   | Mathew    |
| Alex      | chreketo  |
| Yohan     | Soso      |
+-----------+-----------+
7 rows in set (0.00 sec)
```

mysql> select First_name as Employee_Name from employees;

```
+---------------+
| Employee_Name |
+---------------+
| Bob           |
| Jerry         |
| Philip        |
| John          |
| Michael       |
| Alex          |
| Yohan         |
+---------------+
7 rows in set (0.00 sec)
```

```
mysql> select LOWER(Last_name) from employees;
+------------------+
| LOWER(Last_name) |
+------------------+
| kinto            |
| kansxo           |
| jose             |
| abraham          |
| mathew           |
| chreketo         |
| soso             |
+------------------+
7 rows in set (0.02 sec)

mysql> select UPPER(Last_name) from employees;
+------------------+
| UPPER(Last_name) |
+------------------+
| KINTO            |
| KANSXO           |
| JOSE             |
| ABRAHAM          |
| MATHEW           |
| CHREKETO         |
| SOSO             |
+------------------+
7 rows in set (0.00 sec)

mysql> select DISTINCT Department from employees;
+------------+
| Department |
+------------+
| Finance    |
| IT         |
```

```
| Banking    |
| Insurance  |
mysql> select substr(First_name, 1, 4) from employees;
+-------------------------+
| substr(First_name, 1, 4) |
+-------------------------+
| Bob          |
| Jerr         |
| Phil         |
| John         |
| Mich         |
| Alex         |
| Yoha         |
+-------------------------+
7 rows in set (0.00 sec)
mysql> select instr(First_name, "h") from employees where First_name='John';
+-----------------------+
| instr(First_name, "h") |
+-----------------------+
|                 3 |
+-----------------------+
1 row in set (0.00 sec)
mysql> select LTRIM(First_name) from employees;
+------------------+
| LTRIM(First_name) |
+------------------+
| Bob         |
| Jerry        |
| Philip       |
| John         |
| Michael       |
| Alex         |
| Virat        |
+------------------+
```

7 rows in set (0.00 sec)

mysql> select RTRIM(First_name) from employees;

```
+-------------------+
| RTRIM(First_name) |
+-------------------+
| Bob               |
| Jerry             |
| Philip            |
| John              |
| Michael           |
| Alex              |
|    Virat          |
+-------------------+
```

7 rows in set (0.00 sec)

mysql> select LTRIM(First_name) from employees;

```
+-------------------+
| LTRIM(First_name) |
+-------------------+
| Bob               |
| Jerry             |
| Philip            |
| John              |
| Michael           |
| Alex              |
| Virat             |
+-------------------+
```

7 rows in set (0.00 sec)

Create table employee (Employee_id int primary key, First_name varchar(30), Last_name varchar(30), Salary int, Joining_date DATE, Departement varchar(50));