Assignment 2

S20220010093

Q-1


```
mysql> alter table customers
    -> add primary key (CustomerID);
Query OK, 0 rows affected (0.06 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select *from customers;
+------------+------------+--------+--------------+-----------+---------+
| CustomerID | Dateofbirth | Gender | CustomerName | City      | country |
+------------+------------+--------+--------------+-----------+---------+
|         12 | 1996-11-10 | m      | Monk         | Hyderabad | India   |
|         15 | 1972-08-10 | f      | Mars         | goa       | India   |
|         20 | 1966-03-29 | f      | johny        | paris     | france  |
|         25 | 1944-03-10 | f      | mans         | Hamburg   | Germany |
|        125 | 1999-12-10 | m      | maggie       | delhi     | india   |
|        150 | 1991-12-10 | f      | don          | oslo      | norway  |
|        200 | 1968-11-29 | f      | lambie       | paris     | france  |
|       1000 | 1989-10-10 | m      | john         | delhi     | india   |
|       1100 | 1979-01-10 | f      | kens         | Berlin    | Germany |
|       1105 | 1989-10-10 | m      | manish       | delhi     | india   |
|       1106 | 1979-01-10 | f      | kensive      | Berlin    | Germany |
|       1205 | 1998-11-10 | m      | Monk         | delhi     | india   |
|       1259 | 1999-12-10 | m      | maggie       | delhi     | india   |
|       1507 | 1992-08-10 | f      | mars         | oslo      | norway  |
|       2004 | 1966-03-29 | f      | johny        | paris     | france  |
|       2505 | 1944-03-10 | f      | mans         | Hamburg   | Germany |
+------------+------------+--------+--------------+-----------+---------+
16 rows in set (0.00 sec)
```

Q-2-3-4;

```
mysql> alter table products
    -> add constraint fk_CustomerID
    -> foreign key(ProductID) references customers(CustomerID)
    -> foreign key(ProductID) references customers(CustomerID)^C
mysql> alter table products
    -> add constraint fk_CustomerID
    -> foreign key(ProductID) references customers(CustomerID);
Query OK, 7 rows affected (0.03 sec)
Records: 7  Duplicates: 0  Warnings: 0

mysql> select *from products;
+------------+-----------+-------------+--------------+-------+
| CustomerID | ProductID | ProductName | Availability | Price |
+------------+-----------+-------------+--------------+-------+
|          1 |      1000 | pen         | yes          |   100 |
|          2 |      1100 | toy         | no           |    10 |
|          3 |      2505 | pencil      | yes          |    30 |
|          4 |      1205 | duck        | yes          |    50 |
|          6 |       200 | hat         | yes          |    10 |
|          7 |      2505 | pot         | no           |    90 |
|          9 |      1100 | chalk       | no           |    10 |
+------------+-----------+-------------+--------------+-------+
7 rows in set (0.00 sec)

mysql> alter table products
    -> alter column availability set default "yes";
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select *from customers
    -> where CustomerName like "%or%";
Empty set (0.00 sec)
```
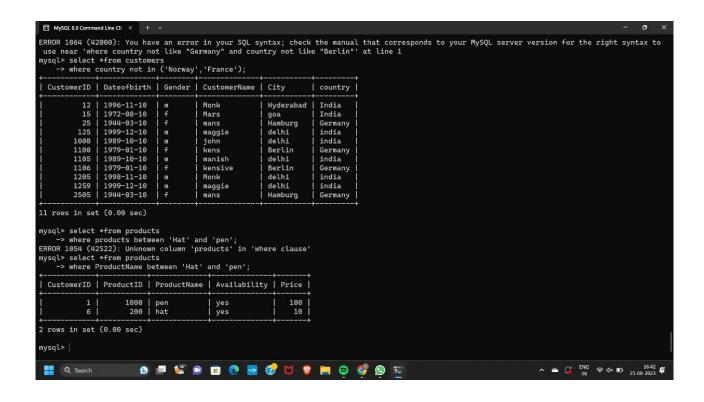
Q-5;Q-6

```
mysql> select *from customers
    -> where CustomerName like "%or%";
Empty set (0.00 sec)

mysql> insert into products(ProductID)
    -> values(2505);
Query OK, 1 row affected (0.00 sec)

mysql> select *from products;
+------------+-----------+-------------+--------------+-------+
| CustomerID | ProductID | ProductName | Availability | Price |
+------------+-----------+-------------+--------------+-------+
|          1 |      1000 | pen         | yes          |   100 |
|          2 |      1100 | toy         | no           |    10 |
|          3 |      2505 | pencil      | yes          |    30 |
|          4 |      1205 | duck        | yes          |    50 |
|          6 |       200 | hat         | yes          |    10 |
|          7 |      2505 | pot         | no           |    90 |
|          9 |      1100 | chalk       | no           |    10 |
|       NULL |      2505 | NULL        | yes          |  NULL |
+------------+-----------+-------------+--------------+-------+
8 rows in set (0.00 sec)

mysql> select *from customers
    -> where City="Germany" and City="Berlin";
Empty set (0.00 sec)

mysql> select *from customers
    -> where country="Germany" and City="Berlin";
+------------+-------------+--------+--------------+--------+---------+
| CustomerID | Dateofbirth | Gender | CustomerName | City   | country |
+------------+-------------+--------+--------------+--------+---------+
|       1100 | 1979-01-10  | f      | kens         | Berlin | Germany |
|       1106 | 1979-01-10  | f      | kensive      | Berlin | Germany |
+------------+-------------+--------+--------------+--------+---------+
2 rows in set (0.00 sec)
```

Q-7;Q-8


```
mysql> select *from customers
    -> where city like "a%b";
Empty set (0.00 sec)

mysql> select *from customers
    -> where city notlike "%a%";
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax
 use near 'notlike "%a%"' at line 2
mysql> select *from customers
    -> where city like "a%b";
Empty set (0.00 sec)

mysql> select *from customers
    -> where city not like "a%";
+------------+-------------+--------+--------------+------------+----------+
| CustomerID | Dateofbirth | Gender | CustomerName | City       | country  |
+------------+-------------+--------+--------------+------------+----------+
|         12 | 1996-11-10  | m      | Monk         | Hyderabad  | India    |
|         15 | 1972-08-10  | f      | Mars         | goa        | India    |
|         20 | 1966-03-29  | f      | johny        | paris      | france   |
|         25 | 1944-03-10  | f      | mans         | Hamburg    | Germany  |
|        125 | 1999-12-10  | m      | maggie       | delhi      | india    |
|        150 | 1991-12-10  | f      | don          | oslo       | norway   |
|        200 | 1968-11-29  | f      | lambie       | paris      | france   |
|       1000 | 1989-10-10  | m      | john         | delhi      | india    |
|       1100 | 1979-01-10  | f      | kens         | Berlin     | Germany  |
|       1105 | 1989-10-10  | m      | manish       | delhi      | india    |
|       1106 | 1979-01-10  | f      | kensive      | Berlin     | Germany  |
|       1205 | 1998-11-10  | m      | Monk         | delhi      | india    |
|       1259 | 1999-12-10  | m      | maggie       | delhi      | india    |
|       1507 | 1992-08-10  | f      | mars         | oslo       | norway   |
|       2004 | 1966-03-29  | f      | johny        | paris      | france   |
|       2505 | 1944-03-10  | f      | mans         | Hamburg    | Germany  |
+------------+-------------+--------+--------------+------------+----------+
16 rows in set (0.00 sec)
```

Q-9-10;

Q-11

```
mysql> select *from customers
    -> where city  like "a%" or city like "c%" or city like "%s";
+------------+-------------+--------+--------------+-------+---------+
| CustomerID | Dateofbirth | Gender | CustomerName | City  | country |
+------------+-------------+--------+--------------+-------+---------+
|         20 | 1966-03-29  | f      | johny        | paris | france  |
|        200 | 1968-11-29  | f      | lambie       | paris | france  |
|       2004 | 1966-03-29  | f      | johny        | paris | france  |
+------------+-------------+--------+--------------+-------+---------+
3 rows in set (0.00 sec)

mysql> select *from customers
    -> where city  between "a%" and "b%";
Empty set (0.00 sec)
```

Q-12

```
mysql> select * from customers
    -> where city  between "a%" and "f%";
+------------+------------+--------+--------------+--------+---------+
| CustomerID | Dateofbirth | Gender | CustomerName | City   | country |
+------------+------------+--------+--------------+--------+---------+
|        125 | 1999-12-10 | m      | maggie       | delhi  | india   |
|       1000 | 1989-10-10 | m      | john         | delhi  | india   |
|       1100 | 1979-01-10 | f      | kens         | Berlin | Germany |
|       1105 | 1989-10-10 | m      | manish       | delhi  | india   |
|       1106 | 1979-01-10 | f      | kensive      | Berlin | Germany |
|       1205 | 1998-11-10 | m      | Monk         | delhi  | india   |
|       1259 | 1999-12-10 | m      | maggie       | delhi  | india   |
+------------+------------+--------+--------------+--------+---------+
7 rows in set (0.00 sec)
```

Q_13-14;

Q-15


```
mysql> select * from products where price between 50 and 100;
+------------+-----------+-------------+--------------+-------+
| CustomerID | ProductID | ProductName | Availability | Price |
+------------+-----------+-------------+--------------+-------+
|          1 |      1000 | pen         | yes          |   100 |
|          4 |      1205 | duck        | yes          |    50 |
|          7 |      2505 | pot         | no           |    90 |
+------------+-----------+-------------+--------------+-------+
3 rows in set (0.00 sec)
```

Q-16

```
mysql> ALTER TABLE Products DROP PRIMARY KEY;
Query OK, 7 rows affected (0.02 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

Q16

```
mysql> ALTER TABLE  products DROP FOREIGN KEY  products_ibfk_1;
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Q-18-19


```
mysql> SELECT * FROM Products
    -> WHERE Price < 50;
+------------+------------+-------------+--------------+-------+
| CustomerID | ProductID  | ProductName | Availability | Price |
+------------+------------+-------------+--------------+-------+
|          2 |       1100 | toy         | no           |    10 |
|          3 |       2505 | pencil      | yes          |    30 |
|          6 |        200 | hat         | yes          |    10 |
|          9 |       1100 | chalk       | no           |    10 |
+------------+------------+-------------+--------------+-------+
4 rows in set (0.00 sec)

mysql> SELECT * FROM Customers
    -> WHERE City NOT IN ('Delhi', 'Hamburg');
+------------+------------+--------+--------------+-----------+---------+
| CustomerID | DateOfBirth | Gender | CustomerName | City      | Country |
+------------+------------+--------+--------------+-----------+---------+
|         12 | 1996-11-10 | m      | Monk         | Hyderabad | India   |
|         15 | 1972-08-10 | f      | Mars         | goa       | India   |
|         20 | 1966-03-29 | f      | Johny        | Paris     | France  |
|        150 | 1991-12-10 | f      | don          | Oslo      | Norway  |
|        200 | 1968-11-29 | f      | Lambie       | paris     | france  |
|       1100 | 1979-01-10 | f      | kens         | Berlin    | Germany |
|       1106 | 1979-01-10 | f      | Kensive      | Berlin    | Germany |
|       1507 | 1992-08-10 | f      | Mars         | Oslo      | Norway  |
|       2004 | 1966-03-29 | f      | johny        | Paris     | France  |
+------------+------------+--------+--------------+-----------+---------+
9 rows in set (0.00 sec)
```

Q-20;


```
rows in set (0.00 sec)

mysql> SELECT CustomerName FROM Customers
    -> WHERE TIMESTAMPDIFF(YEAR, DateOfBirth, CURDATE()) > 18;
+--------------+
| CustomerName |
+--------------+
| Monk         |
| Mars         |
| Johny        |
| Mans         |
| Maggie       |
| don          |
| Lambie       |
| John         |
| kens         |
| manish       |
| Kensive      |
| Monk         |
| Maggie       |
| Mars         |
| johny        |
| kelvin       |
+--------------+
16 rows in set (0.00 sec)
```