Assignment 2

\$20220010093

```
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
                                                   Hyderabad |
          12 | 1996-11-10
                                     Monk
                                                               India
         15
              1972-08-10
                                     Mars
                                                               India
                                                   goa
          20
              1966-03-29
                                                   paris
                                                               france
                                     johny
          25 | 1944-03-10
                                     mans
                                                   Hamburg
                                                               Germany
              1999-12-10
         125
                                                   delhi
                                                               india
                                     maggie
        150
              1991-12-10
                                     don
                                                   oslo
                                                               norway
              1968-11-29
                                     lambie
                                                               france
                                                   paris
              1989-10-10
                                                   delhi
        1000
                                     john
                                                               india
              1979-01-10
                                                   Berlin
        1100
                                     kens
                                                               Germany
        1105
              1989-10-10
                                     manish
                                                   delhi
                                                               india
        1106
              1979-01-10
                                     kensive
                                                   Berlin
                                                               Germany
        1205
              1998-11-10
                                     Monk
                                                   delhi
                                                               india
        1259
              1999-12-10
                                                   delhi
                                                               india
                                     maggie
        1507
              1992-08-10
                                                   oslo
                                                               norway
                                     mars
                                                               france
        2004
              1966-03-29
                                     johny
                                                   paris
        2505 | 1944-03-10
                                                   Hamburg
                                    mans
                                                               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 1000 pen ves 100 2 1100 tov 10 no 3 2505 | pencil 30 ves 44 1205 duck 50 ves 6 200 | hat yes 10 7 2505 | pot 90 no 9 1100 | chalk 10 no 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)

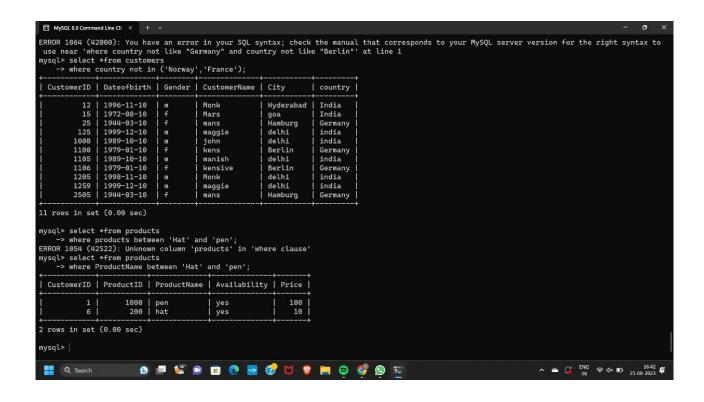
Q-5;Q-6

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 1000 | pen yes 100 2 1100 toy no 10 3 2505 pencil 30 ves 41 1205 duck ves 50 6 200 hat 10 ves 7 2505 90 pot no 9 1100 chalk 10 no NULL 2505 NULL NULL ves 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 1979-01-10 1100 | £ kens Berlin Germany 1106 | 1979-01-10 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 |
                                                  Hyderabad | India
         12 | 1996-11-10 | m
                                    Monk
         15 | 1972-08-10 | f
                                    Mars
                                                             India
                                                  goa
         20 | 1966-03-29 | f
                                                             france
                                    johny
                                                  paris
         25 | 1944-03-10 | f
                                    mans
                                                  Hamburg
                                                             Germany
        125 | 1999-12-10 | m
                                                  delhi
                                    maggie
                                                             india
        150 | 1991-12-10 | f
                                    don
                                                  oslo
                                                             norway
        200 | 1968-11-29
                                    lambie
                                                  paris
                                                             france
       1000 | 1989-10-10
                                                  delhi
                                                             india
                          m
                                    john
       1100 | 1979-01-10
                          | f
                                    kens
                                                  Berlin
                                                             Germany
       1105
             1989-10-10
                          m
                                    manish
                                                  delhi
                                                             india
       1106
              1979-01-10
                                    kensive
                                                  Berlin
                                                             Germany
       1205 | 1998-11-10
                          m
                                    Monk
                                                  delhi
                                                             india
                                                  delhi
       1259 | 1999-12-10
                          m
                                    maggie
                                                             india
       1507 | 1992-08-10
                                    mars
                                                  oslo
                                                             norway
       2004 | 1966-03-29
                                    johny
                                                  paris
                                                             france
                                                  Hamburg
       2505 | 1944-03-10 | f
                                    mans
                                                            Germany
16 rows in set (0.00 sec)
```

Q-9-10;

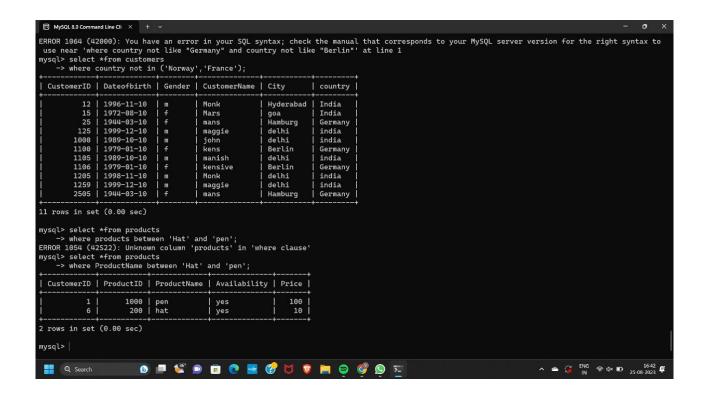


Q-11

```
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
                                                   paris | france
                                     johny
         200 | 1968-11-29
                                     lambie
                                                   paris | france
        2004 | 1966-03-29
                                    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)
```

```
-> where city between "a%" and "f%";
 CustomerID | Dateofbirth | Gender | CustomerName | City
                                                            country
        125 | 1999-12-10
                                     maggie
                                                   delhi
                                                            india
                           m
       1000
             1989-10-10
                            m
                                    john
                                                   delhi
                                                            india
              1979-01-10
                                    kens
                                                   Berlin
       1100
                                                            Germany
       1105
              1989-10-10
                                     manish
                                                   delhi
                                                            india
       1106
             1979-01-10
                                    kensive
                                                   Berlin
                                                            Germany
       1205 | 1998-11-10
                                                   delhi
                                                            india
                                    Monk
       1259 | 1999-12-10
                                    maggie
                                                   delhi
                                                            india
                           m
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 |
                    1000
                                                            100
                            pen
                                          yes
                     1205
                           duck
                                                             50
                                          yes
                                                             90
                    2505
                                          no
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
                   1100 | toy
                                                         10
          2
                                                         30
                   2505 | pencil
                                       yes
          6
                    200 | hat
                                                         10
                                       yes
                                                         10
          9
                   1100 | chalk
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
                                                   Hyderabad | India
                                    Monk
         15 | 1972-08-10
                                     Mars
                                                   goa
                                                               India
              1966-03-29
                                                   Paris
                                                               France
                                     Johny
        150
              1991-12-10
                                                   Oslo
                                     don
                                                               Norway
              1968-11-29
                                    Lambie
                                                   paris
                                                               france
       1100
              1979-01-10
                                    kens
                                                   Berlin
                                                               Germany
       1106
              1979-01-10
                                    Kensive
                                                   Berlin
                                                               Germany
       1507
              1992-08-10
                                                   Oslo
                                    Mars
                                                               Norway
       2004 | 1966-03-29
                                    johny
                                                   Paris
                                                              France
9 rows in set (0.00 sec)
```

Q-20;

```
nysql> 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
L6 rows in set (0.00 sec)
```