DBMS LAB-03

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• QUESTION-1

Answer the following questionnaires;

- 1. Alter table and set CustomerID in Customers table as primary key
- Set ProductID in the products table as Foreignkey which references CustomerID in Customers table.
- 3. Set a default value for Availability as "YES;
- 4. Selects all customers with a CustomerName that have "or" in any position
- Insert CustomerID =2505 in Products table (Assume CustomerID=2505 is not there in Customers table).
- 6. Select all fields from "Customers" where country is "Germany" and city is "Berlin".
- Selects all fields from "Customers" where the country is not "Germany".
- 8. Select all records where the value of the City column starts with the letter "a".
- Select all records where the value of the City column starts with letter "a" and ends with the letter "b".
- Select all records where the value of the City column does NOT start with the letter "a".
- 11. Select all records where the first letter of the City is an "a" or a "c" or an "s".
- Select all records where the first letter of the City starts with anything from an "a" to an "f".
- 13. Select all the records where the Country is NOT "Norway" and NOT "France".
- Select all the records where the value of the ProductName column is alphabetically between 'Hat' and 'Pen'.
- 15. List the customer names if it finds any records in the products table that price = 100:
- 16. List the customer names if it finds all records in the products table that price = 1000:
- 17. Drop primary and foreign key constraints from both the tables.
- 18. Delete the record of all customers who are from country Brazil and city Victoria.

mysql> select * from products;

CustomerID	ProductID	ProductName	+ Availability	Price	
1 2 3 4 5	1000 1100 2505 1205 1500	pen toy pencil duck pearl	yes no yes yes no	100 10 30 50	
6 7 8 9	200 2505 159 1100	hat pot book chalk	yes no yes no	10 90 100 10	

9 rows in set (0.00 sec)

mysql> select * from customers;

CustomerID	+ Dateofbirth	Gender	CustomerName	City	country
1000	1989-10-10	m	John	Delhi	India
1100	1979-01-10	f	Kens	Berlin	Germany
2505	1960-03-10	f	Kelvin	Hamburg	Germany
1205	1998-11-10	m	Monk	Delhi	India
1507	1992-08-10	f	mars	0slo	norway
2004	1966-03-29	f	johny	paris	france
125	1999-12-10	m	Maggie	Delhi	India
150	1991-12-10	f	don	0slo	norway
200	1968-11-29	f	lambie	paris	france
1105	1989-10-10	m	manish	Delhi	India
1106	1979-01-10	f	Kensive	Berlin	Germany
25	1944-03-10	f	mans	Hamburg	Germany
12	1996-11-10	m	Monk	Hyderabad	India
15	1972-08-10	f	mars	goa	India
20	1966-03-29	f	johny	paris	france
1259	1999-12-10	m	Maggie	Delhi	India

16 rows in set (0.00 sec)

mysql> alter table customers

-> add primary key (CustomerID); Query OK, 0 rows affected (0.08 sec) Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from products;

4				L
CustomerID	ProductID		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
L				L

7 rows in set (0.00 sec)

mysql> alter table products

-> add foreign key (ProductID) references customers(CustomerID); Query OK, 7 rows affected (0.07 sec) Records: 7 Duplicates: 0 Warnings: 0

```
mysql> ALTER TABLE products ALTER availability SET DEFAULT 'yes';
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select * from products;
| CustomerID | ProductID | ProductName | Availability | Price |
                         1000
                                                                         100
                                 pen
                         1100
                                  toy
                                                                         10
                         2505
                                 pencil
                                                                          30
                                                   ves
                                 duck
                         1205
                                                                         50
                          200
                                 hat
                                                                          10
                         2505
                                 pot
                                                                          90
                         1100
                                 chalk
                                                                          10
7 rows in set (0.00 sec)
mysql> desc products;
| Field
                   Type
                                    | Null | Key | Default | Extra |
  CustomerID
                     int
                                                       NULL
  ProductID
                     int
                                               MUI
                                      YES
                                                       NULL
  ProductName
                     varchar(20)
                                                       NULL
  Availability
                     varchar(20)
                                      YES
                                                       yes
  Price
                     int
                                                       NULL
5 rows in set (0.01 sec)
mysql> select * from customers
  -> where CustomerName like '%or%';
Empty set (0.01 sec)
mysql> insert into products(CustomerID)
Query OK, 1 row affected (0.00 sec)
mysql> select * froom products;
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 to use near 'froom products' at line 1
mysql> select * froom products;
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 to use near 'froom products' at line 1
mysql> select * from products;
| CustomerID | ProductID | ProductName | Availability | Price |
           1000 pen
           2505 | pencil
           200 | hat
           1100 | chalk
8 rows in set (0.00 sec)
mysql> select * from customers
     -> where City='Berlin' and country='Germany';
| CustomerID | Dateofbirth | Gender | CustomerName | City
                                                                            | country |
                  1979-01-10
                                                                  Berlin |
          1100 I
                                                                             Germany
                                                Kens
          1106 | 1979-01-10
                                  | f
                                                Kensive
                                                                  Berlin
                                                                              Germany
2 rows in set (0.00 sec)
mysql> select * from customers
     -> where country!='Germany';
  CustomerID | Dateofbirth | Gender
                                             | CustomerName | City
                                                                                | country |
                   1996-11-10
                                                Monk
                                                                  Hyderabad |
                                                                                  India
                   1972-08-10
                                                                                  India
                                                mars
                                                                  goa
            20
                   1966-03-29
                                                johny
                                                                  paris
                                                                                  france
                   1999-12-10
                                                Maggie
                                                                  Delhi
                                                                                  India
                                    m
           150
                   1991-12-10
                                                don
                                                                  Oslo
                                                                                  norway
           200
                   1968-11-29
                                                lambie
                                                                  paris
                                                                                  france
                   1989-10-10
                                                                  Delhi
                                                                                  India
          1000
                                    m
                                                John
                   1989-10-10
                                                manish
                                                                  Delhi
                                                                                  India
                                    m
          1205
                   1998-11-10
                                    m
                                                Monk
                                                                  Delhi
                                                                                  India
                   1999-12-10
                                                Maggie
                                                                  Delhi
                                                                                  India
          1507
                   1992-08-10
                                                                  Oslo
                                                                                  norway
                                                mars
                                               johny
                                                                                  france
          2004
                  1966-03-29
                                                                  paris
```

12 rows in set (0.00 sec)

```
mysql> select * from customers
   -> where City like '%a';
 CustomerID | Dateofbirth | Gender | CustomerName | City | country
         15 | 1972-08-10 | f
                                                | goa | India
                                  mars
1 row in set (0.00 sec)
mysql> select * from customers
   -> where City like 'a%';
Empty set (0.00 sec)
mysql> select * from customers
   -> where City like 'a%'and City like '%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
                                                | Hyderabad | India
                                   Monk
         15 | 1972-08-10
                                   mars
                                                goa
                                                              India
         20 | 1966-03-29
                                  johny
                                                paris
                                                             france
         25 | 1944-03-10
                                                Hamburg
                                  mans
                                                             Germany
        125 | 1999-12-10
                                  Maggie
                                                Delhi
                                                            India
                          m
                                                Oslo
        150 | 1991-12-10
                                  don
                                                            norway
                                                paris
        200 | 1968-11-29
                                  lambie
                                                            | france
                                                 Delhi
       1000 | 1989-10-10
                                  John
                                                             India
                           m
                                  Kens
                                                  Berlin
       1100 | 1979-01-10
                                                             Germany
       1105 | 1989-10-10
                                  manish
                                                Delhi
                                                            | India
                           m
                                                Berlin
       1106 | 1979-01-10
                                  Kensive
                                                            Germany
       1205 | 1998-11-10 | m
                                  Monk
                                                 Delhi
                                                            | India
                                                Delhi
       1259 | 1999-12-10 | m
                                  Maggie
                                                            | India
                                                Oslo
       1507 | 1992-08-10
                                  mars
                                                             norway
       2004 | 1966-03-29
                                    johny
                                                  paris
                                                             france
       2505 | 1960-03-10
                                   Kelvin
                                                  Hamburg
                                                             Germany
16 rows in set (0.00 sec)
```

```
mysql> select * from customers
   -> where City like 'a%'or city like 'c%'or city like 's%';
Empty set (0.00 sec)
mysql> select * from customers
   -> where City like 'a%'or city like 'b%'or city like 'c%'or city like 'd%'or city like 'e%'or city like 'f%';
| CustomerID | Dateofbirth | Gender | CustomerName | City | country |
        125 | 1999-12-10 | m
                                 Maggie
                                               Delhi
                                                         India
                                               Delhi
       1000
             1989-10-10 m
                                 John
                                                         India
       1100
                                                         Germany
             1979-01-10
                                 Kens
                                               | Berlin |
       1105
             1989-10-10 m
                                 manish
                                                Delhi
                                                         India
             1979-01-10 | f
       1106
                                 Kensive
                                               | Berlin |
                                                         Germany
       1205 | 1998-11-10 | m
                                                Delhi
                                                         India
                                 Monk
       1259 | 1999-12-10 | m
                                                Delhi
                                                         India
                                  Maggie
7 rows in set (0.00 sec)
```

```
mysql> select * from customers
    -> where country!='norway 'and country!='France';
 CustomerID | Dateofbirth | Gender | CustomerName | City
                                                              country
         12 | 1996-11-10
                                    Monk
                                                  Hyderabad | India
         15 | 1972-08-10 | f
                                    mars
                                                              India
                                                  goa
         25 | 1944-03-10
                                    mans
                                                  Hamburg
                                                              Germany
        125 | 1999-12-10
                          m
                                    Maggie
                                                  Delhi
                                                              India
       1000
              1989-10-10
                                    John
                                                  Delhi
                                                              India
       1100
              1979-01-10
                                    Kens
                                                  Berlin
                                                              Germany
       1105 | 1989-10-10
                                   manish
                                                  Delhi
                                                              India
                           m
       1106 | 1979-01-10
                                   Kensive
                                                  Berlin
                                                              Germany
                                                  Delhi
                                                              India
       1205 | 1998-11-10
                                   Monk
       1259 | 1999-12-10 | m
                                   Maggie
                                                 Delhi
                                                              India
       2505 | 1960-03-10 | f
                                   | Kelvin
                                                 Hamburg
                                                              Germany
11 rows in set (0.00 sec)
mysql>
```

```
nysql> select CustomerName
   -> from customers
    -> where exists(select Price from products where Price=100);
 CustomerName
 Monk
 mars
 johny
 mans
 Maggie
 don
 lambie
 John
 Kens
 manish
 Kensive
 Monk
 Maggie
 mars
 johny
 Kelvin
16 rows in set (0.01 sec)
```

```
mysql> alter table products
    -> drop foreign key products_ibfk_1;
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table customers
    -> drop primary key;
Query OK, 16 rows affected (0.06 sec)
Records: 16 Duplicates: 0 Warnings: 0
```

```
mysql> delete from customers
    -> where country='Brazil' and city='Victoria';
Query OK, 0 rows affected (0.00 sec)
mysql> select * from customers;
 CustomerID | Dateofbirth | Gender | CustomerName |
                                                     City
                                                                 country
              1996-11-10
                                      Monk
                                                      Hyderabad
                                                                  India
          12 l
                             m
          15
              1972-08-10
                                                                  India
                                       mars
                                                      goa
          20
             1966-03-29
                                       johny
                                                                  france
                                                      paris
          25
              1944-03-10
                                       mans
                                                      Hamburg
                                                                  Germany
         125
              1999-12-10
                                       Maggie
                                                      Delhi
                                                                  India
                             m
                             f
         150
             1991-12-10
                                       don
                                                      Oslo
                                                                  norway
         200
             1968-11-29
                                       lambie
                                                      paris
                                                                  france
        1000
             1989-10-10
                             m
                                       John
                                                      Delhi
                                                                  India
                             f
        1100 | 1979-01-10
                                      Kens
                                                      Berlin
                                                                  Germany
                                                      Delhi
        1105 | 1989-10-10
                                       manish
                                                                  India
                             m
        1106
              1979-01-10
                             f
                                       Kensive
                                                      Berlin
                                                                  Germany
        1205 l
              1998-11-10
                             m
                                      Monk
                                                      Delhi
                                                                  India
                                      Maggie
                                                      Delhi
                                                                  India
        1259
             1999-12-10
                             m
              1992-08-10
                             f
                                                      Oslo
        1507
                                       mars
                                                                  norway
                             f
        2004
              1966-03-29
                                      johny
                                                      paris
                                                                  france
        2505 | 1960-03-10
                                       Kelvin
                                                      Hamburg
                                                                  Germany
16 rows in set (0.00 sec)
```

THANK YOU