

DBMS LAB-03

YASH GUPTA

S20200010234

• QUESTION-1

Answer the following questionnaires;

1. Alter table and set CustomerID in Customers table as primary key
 2. 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
 5. 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".
 7. 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".
 9. Select all records where the value of the City column starts with letter "a" and ends with the letter "b".
 10. 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".
 12. 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".
-
14. 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	1000	pen	yes	100
2	1100	toy	no	10
3	2505	pencil	yes	30
4	1205	duck	yes	50
5	1500	pearl	no	60
6	200	hat	yes	10
7	2505	pot	no	90
8	159	book	yes	100
9	1100	chalk	no	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	Oslo	norway
2004	1966-03-29	f	johny	paris	france
125	1999-12-10	m	Maggie	Delhi	India
150	1991-12-10	f	don	Oslo	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;
```

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
```

```
-> 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
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> desc products;
```

Field	Type	Null	Key	Default	Extra
CustomerID	int	YES		NULL	
ProductID	int	YES	MUL	NULL	
ProductName	varchar(20)	YES		NULL	
Availability	varchar(20)	YES		yes	
Price	int	YES		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)
```

```
-> values(2505);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from 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 'from products' at line 1
```

```
mysql> select * from 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 'from products' at line 1
```

```
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
2505	NULL	NULL	yes	NULL

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

```
mysql> select * from customers
```

```
-> where City='Berlin' and country='Germany';
```

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)
```

```
mysql> select * from customers
```

```
-> where country!='Germany';
```

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
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
1105	1989-10-10	m	manish	Delhi	India
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

```
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	mars	goa	India

```
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	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	1960-03-10	f	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
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)
```

```
mysql> select * from customers
-> where country!='norway 'and country!='France';
```

CustomerID	Dateofbirth	Gender	CustomerName	City	country
12	1996-11-10	m	Monk	Hyderabad	India
15	1972-08-10	f	mars	goa	India
25	1944-03-10	f	mans	Hamburg	Germany
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
2505	1960-03-10	f	Kelvin	Hamburg	Germany

```
11 rows in set (0.00 sec)

mysql>
```

```
mysql> select * from products
-> where productname between 'Hat' and 'Pen'
-> order by productname;
```

CustomerID	ProductID	ProductName	Availability	Price
6	200	hat	yes	10
1	1000	pen	yes	100

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

```
mysql> 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
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	1960-03-10	f	Kelvin	Hamburg	Germany

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

THANK YOU