# DBMS - LAB -03

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**SECTION**: C

**TASK:** (LAB EXERCISES)

**SQL COMMANDS** 

- 1. PRIMARY KEYS
- 2. FOREIGN KEYS

#### **CREATING TABLE CUSTOMER:**

```
create table customers(
CustomerID Int,
Dateofbirth date,
Gender varchar(5),
CustomerName varchar(30),
City varchar(20),
country varchar(10)
);
```

### **CREATING TABLE PRODUCTS:**

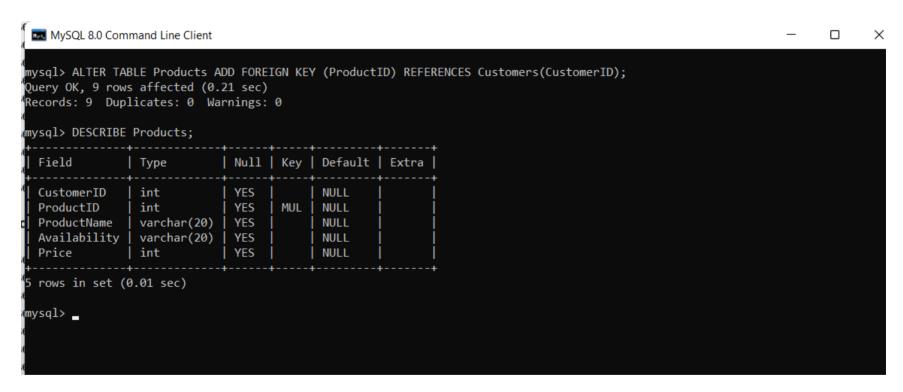
create table products(
CustomerID Int,
ProductID int,
ProductName varchar(20),
Availability varchar(20),
Price int);

AND INSERTED THE VALUES GIVEN IN ASSIGNMENT AND ADDED SOME ROWS FOR THE REQUIREMENTS OF THE QUESTION.

1. Alter table and set CustomerID in Customers table as primary key

```
mysql> ALTER TABLE Customers ADD PRIMARY KEY (CustomerID);
Query OK, 0 rows affected (0.24 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> describe Customers;
             Type
 Field
                          | Null | Key | Default | Extra
 CustomerID
              int
                                  PRI | NULL
 Dateofbirth |
              date
                          YES
                                       NULL
 Gender
              varchar(5) | YES
                                       NULL
 CustomerName | varchar(30) | YES
                                       NULL
 City
              varchar(20) YES
                                       NULL
              varchar(10) | YES
 country
                                       NULL
6 rows in set (0.03 sec)
mysql>
```

2. Set ProductID in the products table as Foreignkey which references CustomerID in Customers table.



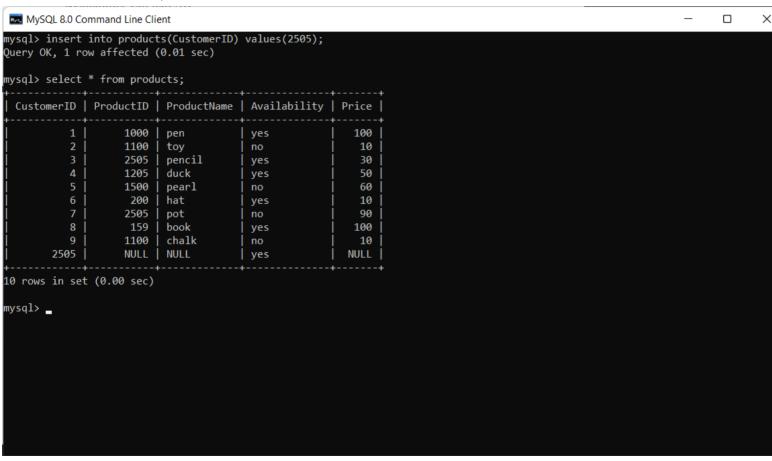
#### 3. Set a default value for Availability as "YES;



4. Selects all customers with a CustomerName that have "or" in any position

```
Select MySQL 8.0 Command Line Client
mysql> SELECT * FROM Customers WHERE CustomerName LIKE '%or%';
 CustomerID | Dateofbirth | Gender | CustomerName | City | country
       1233 | 1999-12-10 | m | jorb
1 row in set (0.00 sec)
mysql> SELECT * FROM Customers WHERE CustomerName LIKE '%oh%';
 CustomerID | Dateofbirth | Gender | CustomerName | City | country
         20 | 1966-03-29 | f
                                  johny
                                                 paris | france
       1000 | 1989-10-10
                                   John
                                                 Delhi | India
       2004 | 1966-03-29 | f
                                  johny
                                                paris | france
3 rows in set (0.00 sec)
mysql>
```

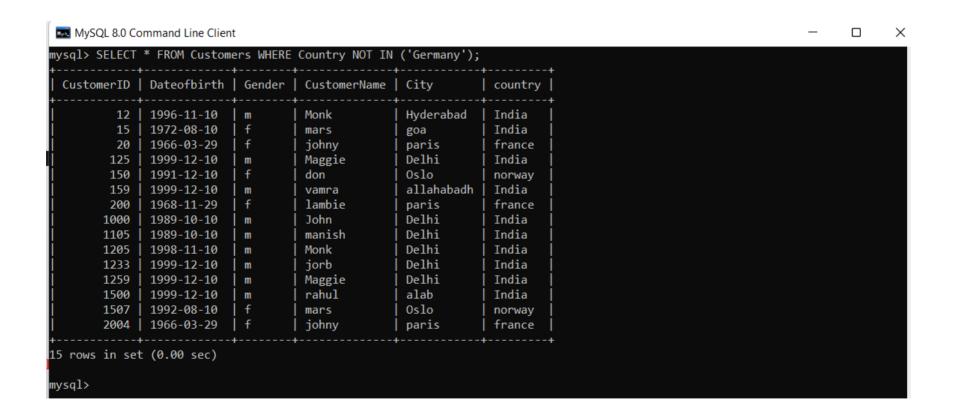
5. Insert CustomerID =2505 in Products table (Assume CustomerID=2505 is not there in Customers table)



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". (these cities are not given in assignment I inserted manually )

	MySQL 8.0 Co	ommand Line Client	t								_	×
my	mysql> SELECT * FROM Customers WHERE city LIKE 'a%';											
į	CustomerID	Dateofbirth	Gender	CustomerName	City	country						
	159 1500	1999-12-10 1999-12-10	m m	vamra rahul	allahabadh alab							
2	rows in set		+			++						
my	/sql> _											

9. Select all records where the value of the City column starts with letter "a" and ends with the letter "b".

(this citiy is not given in assignment I inserted manually )

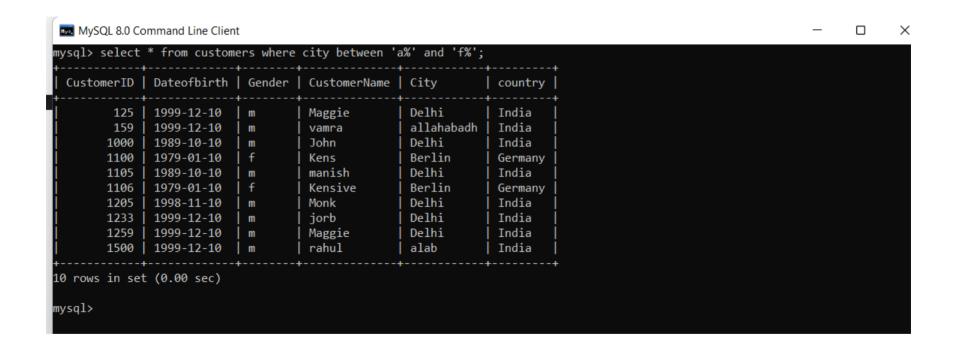


10. Select all records where the value of the City column does NOT start with the letter "a".

ustomerID	Dateofbirth	Gender	CustomerName					
12	1996-11-10	m	   Monk	+   Hyderabad		<del>*</del> 		
15	1972-08-10	l f	mars	goa	India			
20	1966-03-29	l f	johny	paris	france			
25	1944-03-10	l f	mans	Hamburg	Germany			
125	1999-12-10	m	Maggie	Delhi	India			
150	1991-12-10	f	don	0slo	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			
1233	1999-12-10	m	jorb	Delhi	India			
1259	1999-12-10	m	Maggie	Delhi	India			
1507	1992-08-10	f	mars	0slo	norway			
2004	1966-03-29	f	johny	paris	france			
2505	1960-03-10	f	Kelvin	Hamburg	Germany			

11. Select all records where the first letter of the City is an "a" or a "c" or an "s". (these cities are not given in assignment I inserted manually )

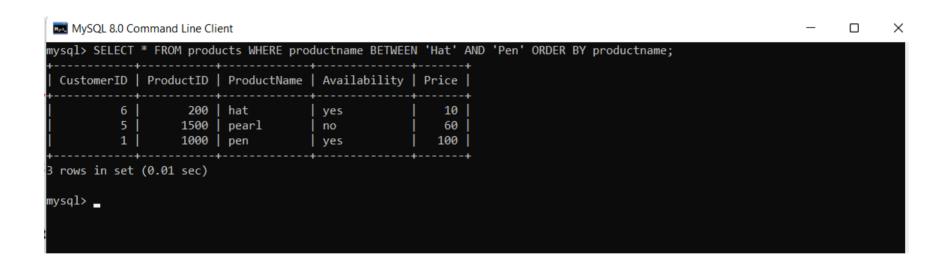
12. Select all records where the first letter of the City starts with anything from an "a" to an "f".



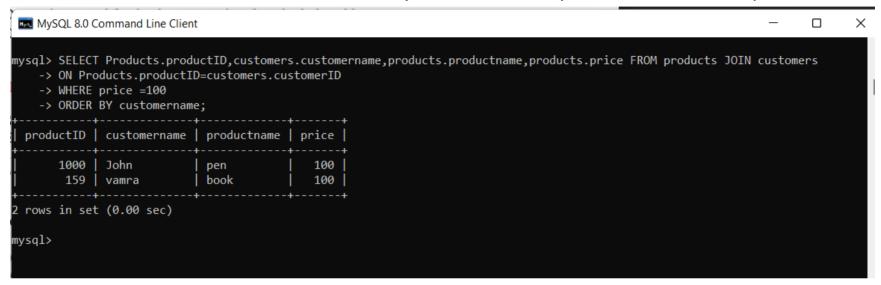
## 13. Select all the records where the Country is NOT "Norway" and NOT "France".

ustomerID	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	
150	1991-12-10	f	don	Oslo	norway	
159	1999-12-10	m	vamra	allahabadh	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	
1233	1999-12-10	m	jorb	Delhi	India	
1259	1999-12-10	m	Maggie	Delhi	India	
1500	1999-12-10	m	rahul	alab	India	
1507	1992-08-10	f	mars	Oslo	norway	
2505	1960-03-10	f	Kelvin	Hamburg	Germany	

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:

```
mysql> SELECT Customername FROM customers WHERE exists (select productid from products where products.productid = customers.customerid AND price =1000); Empty set (0.01 sec)

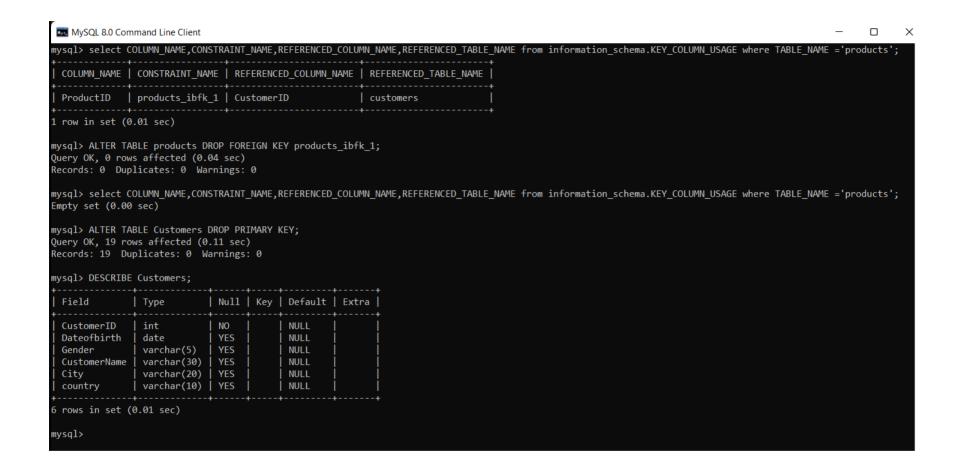
mysql> _
```

17. Drop primary and foreign key constraints from both the tables.

Before dropping foreign key we should find it's constraint name

And using constraint name we can drop foreign key.

Now if we check the foreign key is dropped (in the below figure)



18. Delete the record of all customers who are from country Brazil and city Victoria.

