

LAB-03

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1.

```
[mysql> alter table Customers add primary key(CustomerID);  
Query OK, 0 rows affected (0.03 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
[mysql> desc Customers;
```

Field	Type	Null	Key	Default	Extra
CustomerID	int	NO	PRI	NULL	
Dateofbirth	date	YES		NULL	
Gender	varchar(5)	YES		NULL	
CustomerName	varchar(30)	YES		NULL	
City	varchar(20)	YES		NULL	
country	varchar(10)	YES		NULL	

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

2.

```
mysql> alter table products add constraint foreign key (ProductID) references customers(CustomerID)  
;  
Query OK, 0 rows affected (0.04 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
[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		NULL	
Price	int	YES		NULL	

```
5 rows in set (0.01 sec)
```

3.

```
[mysql> alter table products
-> alter Availability set default 'yes';
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
[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 (0.02 sec)
```

4.

```
[mysql> select CustomerName from customers;
```

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

5.

```
[mysql> insert into products(CustomerID) values(2505);  
Query OK, 1 row affected (0.06 sec)
```

6.

```
[mysql> select * from customers where country = 'Germany' && 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, 1 warning (0.00 sec)
```

7.

```
[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)
```

8.

```
[mysql> select City from customers;
+-----+
| City   |
+-----+
| Hyderabad |
| goa      |
| paris    |
| Hamburg  |
| Delhi    |
| Oslo     |
| paris    |
| Delhi    |
| Berlin   |
| Delhi    |
| Berlin   |
| Delhi    |
| Delhi    |
| Oslo     |
| paris    |
| Hamburg  |
+-----+
16 rows in set (0.00 sec)

[mysql> select * from customers where City like 'a%';
Empty set (0.00 sec)
```

9.

```
[mysql> select * from customers where City like 'a%b';
Empty set (0.00 sec)
```

10.

```
[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)
```

11.

```
[mysql> select * from customers where City like 'a%' or 'c%' or 's%';  
Empty set, 2 warnings (0.01 sec)
```

12.

```
[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)
```

13.

```
[mysql> select * from customers where country != 'Norway' && 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, 1 warning (0.00 sec)
```

14.

```
[mysql> select * from products where ProductName between 'Hat' and 'Pen';
```

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

```
2 rows in set (0.01 sec)
```

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)
```

16.

```
[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 (0.03 sec)
Records: 16 Duplicates: 0 Warnings: 0
```

17.

```
[mysql> delete from customers where country='Brazil' && City='Victoria';
Query OK, 0 rows affected, 1 warning (0.00 sec)
```

18.

```
[mysql> select ProductName, Availability, Price from products where price<50;
+-----+-----+-----+
| ProductName | Availability | Price |
+-----+-----+-----+
| toy         | no          | 10    |
| pencil      | yes         | 30    |
| hat         | yes         | 10    |
| chalk       | no          | 10    |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

19.

```
[mysql> select * from customers where City!='Delhi' and City!='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      | johnny       | 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      | johnny       | paris     | france  |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

20.

```
[mysql> select CustomerName from customers where year(curdate()) - year(Dateofbirth) >18;
```

CustomerName
Monk
mars
johny
mans
Maggie
don
lambie
John
Kens
manish
Kensive
Monk
Maggie
mars
johny
Kelvin

```
16 rows in set (0.03 sec)
```