

Practical Assignment 3: Create Table with primary key and foreign key constraints.

- a. Alter tables with add and modify
- b. Drop table

```
mysql> create database Customer;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> use Customer
Database changed
```

```
mysql> create table Customer
-> (
-> c_id int primary key,
-> c_name varchar(50)
-> );
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> create table orders
-> (
-> order_id int primary key,
-> order_date DATE,
-> c_id int,
-> foreign key (c_id) references customer (c_id)
-> );
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> desc Customer;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| c_id  | int           | NO   | PRI | NULL    |       |
| c_name | varchar(50)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> desc orders;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| order_id   | int  | NO   | PRI | NULL    |       |
| order_date | date | YES  |     | NULL    |       |
| c_id       | int  | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> alter table Customer
-> add phone_no varchar(20);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select * from Customer;
Empty set (0.01 sec)
```

```
mysql> desc Customer;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
```

Field	Type	Null	Key	Default	Extra
c_id	int	NO	PRI	NULL	
c_name	varchar(50)	YES		NULL	
phone_no	varchar(20)	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> alter table Customer
-> modify c_name varchar(100);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc Customer;
```

Field	Type	Null	Key	Default	Extra
c_id	int	NO	PRI	NULL	
c_name	varchar(100)	YES		NULL	
phone_no	varchar(20)	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> alter table Customer
-> drop phone_no;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc Customer;
```

Field	Type	Null	Key	Default	Extra
c_id	int	NO	PRI	NULL	
c_name	varchar(100)	YES		NULL	

2 rows in set (0.00 sec)

```
mysql> desc orders;
```

Field	Type	Null	Key	Default	Extra
order_id	int	NO	PRI	NULL	
order_date	date	YES		NULL	
c_id	int	YES	MUL	NULL	

3 rows in set (0.00 sec)

```
mysql> alter table orders
-> add constraint fk_orders_customer
-> foreign key (c_id)
-> references customer(c_id);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc orders;
```

Field	Type	Null	Key	Default	Extra
order_id	int	NO	PRI	NULL	
order_date	date	YES		NULL	

c_id	int	YES	MUL	NULL	
------	-----	-----	-----	------	--

3 rows in set (0.00 sec)

```
mysql> alter table orders
-> drop foreign key fk_orders_customer;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc orders;
```

Field	Type	Null	Key	Default	Extra
order_id	int	NO	PRI	NULL	
order_date	date	YES		NULL	
c_id	int	YES	MUL	NULL	

3 rows in set (0.00 sec)