

# MySQL

## Assignment-2: DDL Constraints

Create a database called “Sales” and create a new table named “Orders” in the Sales database with columns: (Order\_Id, Customer\_name, Product\_Category, Ordered\_item, Contact\_No). Use constraints: Primary Key Unique Not Null.

### Query and Result

The screenshot shows the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows the 'sales' database selected. The main editor displays the following SQL code:

```
1 • create database Sales; -- create database
2 • use Sales;
3
4 /* create table*/
5 • create table Orders(order_id int auto_increment primary key,
6   customer_name varchar(50) not null,
7   product_category varchar(50) not null,
8   ordered_item varchar(50) not null,
9   contact_no varchar(50) unique);
10 • desc Orders;
```

Below the code, the 'Result Grid' shows the output of the 'desc Orders' command:

Field	Type	Null	Key	Default	Extra
order_id	int	NO	PRI	NULL	auto_increment
customer_name	varchar(50)	NO		NULL	
product_category	varchar(50)	NO		NULL	
ordered_item	varchar(50)	NO		NULL	
contact_no	varchar(50)	YES	UNI	NULL	

On the left, the 'Index: contact\_no' definition is shown:

Type: BTREE  
Unique: Yes  
Visible: Yes  
Columns: contact\_no

1. Add a new column named “order\_quantity” to the orders table.

### Query and Result

The screenshot shows the MySQL Workbench interface. The main editor displays the following SQL code:

```
12 /* Add new column*/
13 • alter table orders add order_quantity varchar(10);
14 • select*from orders;
```

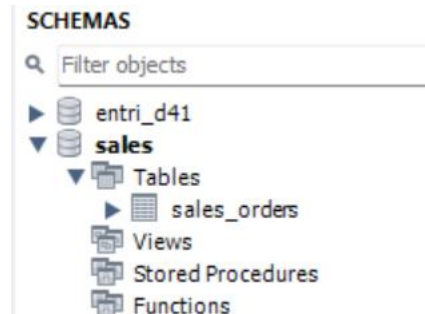
Below the code, the 'Result Grid' shows the output of the 'select\*from orders' command:

order_id	customer_name	product_category	ordered_item	contact_no	order_quantity
NULL	NULL	NULL	NULL	NULL	NULL

2. Rename the orders table to the sales\_orders table.

### Query and Result

```
16      /*Rename the table*/
17 •    alter table orders rename to sales_orders;
```



3. Insert 10 rows into the sales\_orders table.

### Query

```
20      /* enter rows to table*/
21 •    insert into sales_orders(customer_name, product_category, ordered_item,
22      contact_no, order_quantity) values ("Mithra", "Food", "Corn", 76761123, 1),
23      ("Suma", "Food", "Rice", 76761423, 2),
24      ("Fred", "Electronics", "Phone", 76561123, 1),
25      ("Sasha", "Food", "Meat", 76901123, 1),
26      ("Melwin", "Food", "Milk", 76121123, 5),
27      ("Hyder", "Cosmetics", "Facewash", 76736123, 1),
28      ("Ankit", "Food", "Fish", 76756123, 1),
29      ("Roy", "Food", "Fruits", 78961123, 10),
30      ("Amit", "Electronics", "Fan", 76745123, 1),
31      ("Nithya", "Cosmetics", "Lipstick", 76221123, 4);
32 •    select*from sales_orders;
```

### Result

Result Grid						
		Filter Rows:	Edit:		Export/Import:	
	order_id	customer_name	product_category	ordered_item	contact_no	order_quantity
▶	11	Mithra	Food	Corn	76761123	1
	12	Suma	Food	Rice	76761423	2
	13	Fred	Electronics	Phone	76561123	1
	14	Sasha	Food	Meat	76901123	1
	15	Melwin	Food	Milk	76121123	5
	16	Hyder	Cosmetics	Facewash	76736123	1
	17	Ankit	Food	Fish	76756123	1
	18	Roy	Food	Fruits	78961123	10
	19	Amit	Electronics	Fan	76745123	1
	20	Nithya	Cosmetics	Lipstick	76221123	4
•	NULL	NULL	NULL	NULL	NULL	NULL

4. Retrieve customer\_name and Ordered\_Item from the sales\_orders table.

### Query and Result

```
34  /*Display customer_name and ordered_item from the table*/
35  •  select customer_name, ordered_item
36  from sales_orders;
```

	customer_name	ordered_item
▶	Mithra	Corn
	Suma	Rice
	Fred	Phone
	Sasha	Meat
	Melwin	Milk
	Hyder	Facewash
	Ankit	Fish
	Roy	Fruits
	Amit	Fan
	Nithya	Lipstick

5. Use the update command to change the name of the product for any row.

### Query and Result

```
38  /*update product "food" into "cosmetics" and "meat" into "lipbalm" for order_id=14*/
39  •  update sales_orders set product_category="Cosmetics" where order_id=14;
40  •  update sales_orders set ordered_item="Lipbalm" where order_id=14;
41  •  select*from sales_orders;
```

	order_id	customer_name	product_category	ordered_item	contact_no	order_quantity
▶	11	Mithra	Food	Corn	76761123	1
	12	Suma	Food	Rice	76761423	2
	13	Fred	Electronics	Phone	76561123	1
	14	Sasha	Cosmetics	Lipbalm	76901123	1
	15	Melwin	Food	Milk	76121123	5
	16	Hyder	Cosmetics	Facewash	76736123	1
	17	Ankit	Food	Fish	76756123	1
	18	Roy	Food	Fruits	78961123	10
	19	Amit	Electronics	Fan	76745123	1
	20	Nithya	Cosmetics	Lipstick	76221123	4
*	NULL	NULL	NULL	NULL	NULL	NULL

6. Delete the sales\_orders table from the database.

## Query

```
43      /* delete sales_orders table from database*/  
44 •    drop table sales_orders;  
45 •    select*from sales_orders;
```

## Result

