

# SQL DDL CONSTRAINTS

## ASSIGNMENT 2

The screenshot shows a SQL IDE window with the following SQL code:

```
1 # Create the Database,USE THE DATA BASE
2 CREATE DATABASE Sales;
3 -- Use the Sales database
4 USE Sales;
5 -- Create the Orders table with specified columns and constraints
6 CREATE TABLE Orders (
7     Order_Id INT PRIMARY KEY UNIQUE NOT NULL,
8     Customer_name VARCHAR(255) NOT NULL,
9     Product_Category VARCHAR(255) NOT NULL,
10    Ordered_item VARCHAR(255) NOT NULL,
11    Contact_No VARCHAR(15) NOT NULL);
12
13
```

The Output window shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	20:27:32	CREATE DATABASE Sales	Error Code: 1007. Can't create database 'sales'; database exists	0.000 sec
2	20:37:14	USE Sales	0 row(s) affected	0.000 sec
3	20:38:22	CREATE TABLE Orders ( Order_Id INT PRIMARY KEY UNIQUE NOT NULL, Customer_name VARCHAR(255) ...	0 row(s) affected	0.032 sec

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7     Order_Id INT PRIMARY KEY UNIQUE NOT NULL,
8     Customer_name VARCHAR(255) NOT NULL,
9     Product_Category VARCHAR(255) NOT NULL,
10    Ordered_item VARCHAR(255) NOT NULL,
11    Contact_No VARCHAR(15) NOT NULL);
12 -- Add the order_quantity column to the Orders table
13 ALTER TABLE Orders ADD order_quantity INT NOT NULL;
14 -- Rename the Orders table to sales_orders
15 ALTER TABLE Orders RENAME TO sales_orders;
16
17
```

The Output window shows the execution results:

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1	20:27:32	CREATE DATABASE Sales	Error Code: 1007. Can't create database 'sales'; database exists	0.000 sec
2	20:37:14	USE Sales	0 row(s) affected	0.000 sec
3	20:38:22	CREATE TABLE Orders ( Order_Id INT PRIMARY KEY UNIQUE NOT NULL, Customer_name VARCHAR(255) ...	0 row(s) affected	0.032 sec
4	20:39:08	ALTER TABLE Orders ADD order_quantity INT NOT NULL	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
5	20:47:45	ALTER TABLE Orders RENAME TO sales_orders	0 row(s) affected	0.015 sec

```

8      Customer_name VARCHAR(255) NOT NULL,
9      Product_Category VARCHAR(255) NOT NULL,
10     Ordered_item VARCHAR(255) NOT NULL,
11     Contact_No VARCHAR(15) NOT NULL);
12     -- Add the order_quantity column to the Orders table
13 • ALTER TABLE Orders ADD order_quantity INT NOT NULL;
14     -- Rename the Orders table to sales_orders
15 • ALTER TABLE Orders RENAME TO sales_orders;
16     -- Insert 10 rows into the sales_orders table
17 • INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_quantity) VALUES
18     (11, 'Alice', 'Electronics', 'Laptop', '1234567890', 1),
19     (12, 'Bob', 'Home Appliances', 'Vacuum Cleaner', '0987654321', 2),
20     (13, 'Charlie', 'Books', 'Fiction Novel', '1112223333', 3),
21     (14, 'David', 'Clothing', 'T-Shirt', '4445556666', 4),
22     (15, 'Eva', 'Electronics', 'Smartphone', '7778889999', 1),
23     (16, 'Frank', 'Groceries', 'Olive Oil', '2223334444', 5),
24     (17, 'Grace', 'Furniture', 'Sofa', '5556667777', 1),
25     (18, 'Hank', 'Toys', 'Action Figure', '8889990000', 2),
26     (19, 'Ivy', 'Beauty', 'Perfume', '9990001112', 1),
27     (20, 'Jack', 'Sports', 'Tennis Racket', '3334445556', 1);
28

```

Output

#	Time	Action	Message	D
8	20:48:28	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_quantity)	Error Code: 1062. Duplicate entry '1' for key 'sales_orders PRIMARY'	0.0
9	20:48:28	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_quantity)	Error Code: 1062. Duplicate entry '1' for key 'sales_orders PRIMARY'	0.0
10	20:49:49	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_quantity)	Error Code: 1062. Duplicate entry '1' for key 'sales_orders PRIMARY'	0.0
11	20:50:37	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_quantity)	Error Code: 1062. Duplicate entry '1' for key 'sales_orders PRIMARY'	0.0
12	20:53:26	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_quantity)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.0

students table\* SQL File 3\* SQL ASSIGNMENT 1 SQL File 5\*

```

23     (16, 'Frank', 'Groceries', 'Olive Oil', '2223334444', 5),
24     (17, 'Grace', 'Furniture', 'Sofa', '5556667777', 1),
25     (18, 'Hank', 'Toys', 'Action Figure', '8889990000', 2),
26     (19, 'Ivy', 'Beauty', 'Perfume', '9990001112', 1),
27     (20, 'Jack', 'Sports', 'Tennis Racket', '3334445556', 1);
28     -- Retrieve customer_name and Ordered_Item from the sales_orders table
29 • SELECT Customer_name, Ordered_item FROM sales_orders;
30

```

Result Grid

Customer_name	Ordered_item
Alice	Laptop
Bob	Vacuum Cleaner
Charlie	Fiction Novel
David	T-Shirt
Eva	Smartphone
Frank	Olive Oil
Grace	Sofa
Hank	Action Figure
Ivy	Perfume
Jack	Tennis Racket
Alice	Laptop
Bob	Vacuum Cleaner

Output

#	Time	Action	Message	Duration / Fetch
8	20:48:28	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_q...	Error Code: 1062. Duplicate entry '1' for key 'sales_orders PRIMARY'	0.000 sec
9	20:48:28	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_q...	Error Code: 1062. Duplicate entry '1' for key 'sales_orders PRIMARY'	0.000 sec
10	20:49:49	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_q...	Error Code: 1062. Duplicate entry '1' for key 'sales_orders PRIMARY'	0.000 sec
11	20:50:37	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_q...	Error Code: 1062. Duplicate entry '1' for key 'sales_orders PRIMARY'	0.000 sec
12	20:53:26	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_q...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
13	20:54:48	SELECT Customer name, Ordered item FROM sales orders LIMIT 0.1000	20 row(s) returned	0.000 sec / 0.1

```
16 -- Insert 10 rows into the sales_orders table
17 • INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_quantity) VALUES
18 (11, 'Alice', 'Electronics', 'Laptop', '1234567890', 1),
19 (12, 'Bob', 'Home Appliances', 'Vacuum Cleaner', '0987654321', 2),
20 (13, 'Charlie', 'Books', 'Fiction Novel', '1112223333', 3),
21 (14, 'David', 'Clothing', 'T-Shirt', '4445556666', 4),
22 (15, 'Eva', 'Electronics', 'Smartphone', '7778889999', 1),
23 (16, 'Frank', 'Groceries', 'Olive Oil', '2223334444', 5),
24 (17, 'Grace', 'Furniture', 'Sofa', '5556667777', 1),
25 (18, 'Hank', 'Toys', 'Action Figure', '8889990000', 2),
26 (19, 'Ivy', 'Beauty', 'Perfume', '9990001112', 1),
27 (20, 'Jack', 'Sports', 'Tennis Racket', '3334445556', 1);
28 -- Retrieve customer_name and Ordered_Item from the sales_orders table
29 • SELECT Customer_name, Ordered_item FROM sales_orders;
30 ##Update the name of the product for a specific row
31 • UPDATE sales_orders SET Ordered_item = 'Gaming Laptop' WHERE Order_Id = 1;
32 -- Delete the sales_orders table from the database
33 • DROP TABLE sales_orders;
34
35
```

Output

#	Time	Action	Message	Duration / Fetch
11	20:50:37	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_q...	Error Code: 1062. Duplicate entry '1' for key 'sales_orders.PRIMARY'	0.000 sec
12	20:53:26	INSERT INTO sales_orders (Order_Id, Customer_name, Product_Category, Ordered_item, Contact_No, order_q...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
13	20:54:48	SELECT Customer_name, Ordered_item FROM sales_orders LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec
14	20:55:31	Update the name of the product for a specific row UPDATE sales_orders SET Ordered_item = 'Gaming Laptop'...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL ser...	0.000 sec
15	20:55:51	UPDATE sales_orders SET Ordered_item = 'Gaming Laptop' WHERE Order_Id = 1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
16	20:56:22	DROP TABLE sales_orders	0 row(s) affected	0.031 sec

## SUMMARY

These commands will create your database and table, modify it as specified, insert data, retrieve data, update a row, and finally delete the table. Make sure you have the necessary permissions and a suitable SQL environment to execute these commands.