

SQL Assignment: products Table

```
mysql> CREATE DATABASE ASSIGN_1;
Query OK, 1 row affected (0.05 sec)
```

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| assign_1 |
| courier_management |
| elakkiya |
| hospital_management |
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| virtualartgallery |
| world |
+-----+
11 rows in set (0.01 sec)
```

Created a database named assign_1.

Task 1: Create a Table Create a table named products with the following columns:

product_id (INT, Primary Key)

product_name (VARCHAR)

category (VARCHAR)

price (DECIMAL)

stock_quantity (INT)

added_date (DATE)

```
mysql> USE ASSIGN_1;
Database changed
mysql> CREATE TABLE PRODUCTS(
  -> PRODUCT_ID INT PRIMARY KEY,
  -> PRODUCT_NAME VARCHAR (100),
  -> CATEGORY VARCHAR (100),
  -> PRICE DECIMAL(7,2),
  -> STOCK_QTY INT,
  -> ADDED_DATE DATE);
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> DESC PRODUCTS;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| PRODUCT_ID | int | NO | PRI | NULL | |
| PRODUCT_NAME | varchar(100) | YES | | NULL | |
| CATEGORY | varchar(100) | YES | | NULL | |
| PRICE | decimal(7,2) | YES | | NULL | |
| STOCK_QTY | int | YES | | NULL | |
| ADDED_DATE | date | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.03 sec)
```

Task 2: Insert Records Insert at least 5 different products, each with a unique category and price range. Use realistic product names (e.g., headphones, mouse, laptop, etc.).

```
mysql> INSERT INTO PRODUCTS VALUES
-> (1, 'MOUSE', 'ELECTRONICS', 400.00, 7, '2025-05-30'),
-> (2, 'HEADPHONE', 'ELECTRONICS', 900.00, 5, '2025-06-19'),
-> (3, 'YELLOW SALWAR', 'CLOTHING', 650.00, 3, '2025-07-08'),
-> (4, 'SPEAKER', 'ELECTRONICS', 860.00, 12, '2025-06-15'),
-> (5, 'BAGGY JEAN', 'CLOTHING', 1020.00, 6, '2025-07-11');
Query OK, 5 rows affected (0.04 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

Task 3: Write Queries

1. List all products.

```
mysql> SELECT * FROM PRODUCTS;
```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	PRICE	STOCK_QTY	ADDED_DATE
1	MOUSE	ELECTRONICS	400.00	7	2025-05-30
2	HEADPHONE	ELECTRONICS	900.00	5	2025-06-19
3	YELLOW SALWAR	CLOTHING	650.00	3	2025-07-08
4	SPEAKER	ELECTRONICS	860.00	12	2025-06-15
5	BAGGY JEAN	CLOTHING	1020.00	6	2025-07-11

5 rows in set (0.01 sec)

2. Display only product_name and price .

```
mysql> SELECT PRODUCT_NAME, PRICE FROM PRODUCTS;
```

PRODUCT_NAME	PRICE
MOUSE	400.00
HEADPHONE	900.00
YELLOW SALWAR	650.00
SPEAKER	860.00
BAGGY JEAN	1020.00

5 rows in set (0.00 sec)

3. Find products with stock_quantity less than 10.

```
mysql> SELECT * FROM PRODUCTS WHERE STOCK_QTY < 10;
```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	PRICE	STOCK_QTY	ADDED_DATE
1	MOUSE	ELECTRONICS	400.00	7	2025-05-30
2	HEADPHONE	ELECTRONICS	900.00	5	2025-06-19
3	YELLOW SALWAR	CLOTHING	650.00	3	2025-07-08
5	BAGGY JEAN	CLOTHING	1020.00	6	2025-07-11

4 rows in set (0.01 sec)

4. Find products with price between 500 and 2000.

```
mysql> SELECT * FROM PRODUCTS WHERE PRICE BETWEEN 500 AND 2000;
```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	PRICE	STOCK_QTY	ADDED_DATE
2	HEADPHONE	ELECTRONICS	900.00	5	2025-06-19
3	YELLOW SALWAR	CLOTHING	650.00	3	2025-07-08
4	SPEAKER	ELECTRONICS	860.00	12	2025-06-15
5	BAGGY JEAN	CLOTHING	1020.00	6	2025-07-11

4 rows in set (0.01 sec)

5. Show products added after 2025-07-01 .

```
mysql> SELECT * FROM PRODUCTS WHERE ADDED_DATE > '2025-07-01';
```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	PRICE	STOCK_QTY	ADDED_DATE
3	YELLOW SALWAR	CLOTHING	650.00	3	2025-07-08
5	BAGGY JEAN	CLOTHING	1020.00	6	2025-07-11

2 rows in set (0.01 sec)

6. List all products whose names start with 'S'.

```
mysql> SELECT * FROM PRODUCTS WHERE PRODUCT_NAME LIKE 'S%';
```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	PRICE	STOCK_QTY	ADDED_DATE
4	SPEAKER	ELECTRONICS	860.00	12	2025-06-15

1 row in set (0.01 sec)

7. Show all products that belong to either Electronics or Furniture .

```
mysql> SELECT * FROM PRODUCTS WHERE CATEGORY IN ('ELECTRONICS', 'FURNITURE');
```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	PRICE	STOCK_QTY	ADDED_DATE
1	MOUSE	ELECTRONICS	400.00	7	2025-05-30
2	HEADPHONE	ELECTRONICS	900.00	5	2025-06-19
4	SPEAKER	ELECTRONICS	860.00	12	2025-06-15

3 rows in set (0.01 sec)

Task 4: Update & Delete

1. Update the price of one product.

```
mysql> UPDATE PRODUCTS SET PRICE = 450.00 WHERE PRODUCT_NAME = 'MOUSE';  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> SELECT * FROM PRODUCTS;
```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	PRICE	STOCK_QTY	ADDED_DATE
1	MOUSE	ELECTRONICS	450.00	7	2025-05-30
2	HEADPHONE	ELECTRONICS	900.00	5	2025-06-19
3	YELLOW SALWAR	CLOTHING	650.00	3	2025-07-08
4	SPEAKER	ELECTRONICS	860.00	12	2025-06-15
5	BAGGY JEAN	CLOTHING	1020.00	6	2025-07-11

5 rows in set (0.00 sec)

2. Increase stock of all products in a specific category by 5.

```
mysql> UPDATE PRODUCTS SET STOCK_QTY = STOCK_QTY+5 WHERE CATEGORY = 'CLOTHING';
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2  Changed: 2  Warnings: 0

mysql> SELECT * FROM PRODUCTS;
```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	PRICE	STOCK_QTY	ADDED_DATE
1	MOUSE	ELECTRONICS	450.00	7	2025-05-30
2	HEADPHONE	ELECTRONICS	900.00	5	2025-06-19
3	YELLOW SALWAR	CLOTHING	650.00	8	2025-07-08
4	SPEAKER	ELECTRONICS	860.00	12	2025-06-15
5	BAGGY JEAN	CLOTHING	1020.00	11	2025-07-11

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

3. Delete one product based on its product_id .

```
mysql> DELETE FROM PRODUCTS WHERE PRODUCT_ID = 3;
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM PRODUCTS;
```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	PRICE	STOCK_QTY	ADDED_DATE
1	MOUSE	ELECTRONICS	450.00	7	2025-05-30
2	HEADPHONE	ELECTRONICS	900.00	5	2025-06-19
4	SPEAKER	ELECTRONICS	860.00	12	2025-06-15
5	BAGGY JEAN	CLOTHING	1020.00	11	2025-07-11

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

The product with product id 3 is deleted.

4. Delete all products with stock_quantity = 0

```
mysql> DELETE FROM PRODUCTS WHERE STOCK_QTY = 0;
Query OK, 0 rows affected (0.00 sec)
```

There is no product with stock quantity 0.