

# SQL CRUD OPERATIONS

## SQL Assignment: products Table

### Task 1: Create a Table

```
create table products (  
    product_id INT PRIMARY KEY,  
    product_name VARCHAR(100),  
    category VARCHAR(100),  
    price DECIMAL(10, 2),  
    stock_quantity INT,  
    added_date DATE  
);
```

### Task 2: Insert Records

```
INSERT INTO  
products(product_id,product_name,category,price,stock_quantity,added_date)  
VALUES(  
(1, 'Smartphone', 'Electronics', 1499.99, 15, '2024-12-01'),  
(2, 'Sofa', 'Furniture', 899.50, 5, '2023-06-20'),  
(3, 'Headphones', 'Electronics', 500.00, 25, '2024-04-11'),  
(4, 'Stove', 'Kitchen Appliances', 1800.00, 8, '2025-01-10'),  
(5, 'Mouse', 'Electronics', 450.00, 0, '2022-11-05');
```

### Task 3: Write Queries

#### **1.List all products.**

```
select * from products;
```

#### **2. Display only product\_name and price .**

```
select product_name,price from products;
```

#### **3. Find products with stock\_quantity less than 10.**

```
select * from products  
where stock_quantity < 10;
```

**4. Find products with price between 500 and 2000.**

select \* from products

where price between 500 and 2000;

**5. Show products added after 2023-01-01 .**

select \* from products

where added\_date > '2023-01-01';

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

select \* from products

where product\_name LIKE 'S%';

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

select \* from products

where category IN ('Electronics', 'Furniture');

**Task 4: Update & Delete**

**1.Update the price of one product.**

update products

set price=300.00

where product\_id=3;

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

update products

set stock\_quantity = stock\_quantity + 5

where category = 'Electronics';

**3. Delete one product based on its product\_id .**

delete from products

where product\_id=1;

**4. Delete all products with stock\_quantity = 0.**

delete from products

where stock\_quantity =0;

