

## SQL Assignment 1: products Table

### 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)

```
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 values

```
(1, 'Wireless Headphones', 'Electronics', 2999.00, 50, '2022-07-17'),  
(2, 'Mouse', 'Accessories', 1499.50, 30, '2021-03-09'),  
(3, 'Laptop - Dell ', 'Computers', 559.99, 9, '2025-12-31'),  
(4, 'Smartphone - Samsung Galaxy', 'Electronics', 2229.00, 25, '2023-03-15'),  
(5, 'Dining Table', 'Furniture', 399.95, 5, '2021-06-07');
```

### 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 = 1407.12 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=5;

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

delete from products where stock\_quantity=0;