SQL Task – 2

```
CREATE TABLE Products (
  ProductID INT AUTO_INCREMENT PRIMARY KEY,
  ProductName VARCHAR(255) NOT NULL,
  Category VARCHAR(100),
  Rating DECIMAL(2,1) CHECK (Rating BETWEEN 0 AND 5),
  Price DECIMAL(10,2) NOT NULL CHECK (Price >= 0),
  SaleDate DATE NOT NULL
);

INSERT INTO Products (ProductName, Category, Rating, Price, SaleDate)
VALUES
('Echo Dot (4th Gen)', 'Electronics', 4.5, 49.99, '2025-10-01'),
('Fire TV Stick 4K', 'Electronics', 4.7, 39.99, '2025-10-02'),
('Kindle Paperwhite', 'Books', 4.8, 129.99, '2025-09-28'),
('Amazon Basics Laptop Bag', 'Accessories', 4.3, 24.99, '2025-09-30'),
('Wireless Mouse', 'Computers', 4.2, 19.49, '2025-10-03'),
('HP Pavilion Laptop', 'Computers', 4.4, 599.99, '2025-09-25'),
('Samsung Galaxy S23', 'Mobiles', 4.6, 749.99, '2025-09-27'),
('Apple iPhone 15', 'Mobiles', 4.9, 999.99, '2025-09-29'),
('Sony WH-1000XM5 Headphones', 'Electronics', 4.8, 349.99, '2025-10-02'),
('JBL Flip 6 Speaker', 'Electronics', 4.6, 119.99, '2025-10-01'),
('ASUS ROG Gaming Mouse', 'Computers', 4.5, 59.99, '2025-09-26'),
('Dell Wireless Keyboard', 'Computers', 4.3, 29.99, '2025-10-03'),
('Logitech C920 Webcam', 'Computers', 4.7, 89.99, '2025-09-24'),
('Amazon Echo Show 8', 'Electronics', 4.6, 129.99, '2025-09-23'),
('Instant Pot Duo 7-in-1', 'Home Appliances', 4.5, 99.99, '2025-10-02'),
('Philips Air Fryer', 'Home Appliances', 4.4, 149.99, '2025-10-01'),
('Dyson V11 Vacuum Cleaner', 'Home Appliances', 4.8, 599.99, '2025-09-22'),
```

('Nike Running Shoes', 'Fashion', 4.6, 89.99, '2025-09-25'),

('Adidas Sports T-shirt', 'Fashion', 4.3, 29.99, '2025-09-29'),

('Levi’s Jeans', 'Fashion', 4.4, 59.99, '2025-09-30'),

('Puma Backpack', 'Accessories', 4.2, 49.99, '2025-10-02'),

('Apple Watch Series 9', 'Wearables', 4.9, 399.99, '2025-10-01'),

('Samsung Galaxy Watch 6', 'Wearables', 4.7, 349.99, '2025-09-28'),

('Fitbit Charge 6', 'Wearables', 4.5, 149.99, '2025-09-26'),

('Canon EOS 250D DSLR', 'Cameras', 4.8, 699.99, '2025-09-27'),

('GoPro Hero 12', 'Cameras', 4.7, 399.99, '2025-09-25'),

('Sandisk 1TB SSD', 'Computers', 4.6, 89.99, '2025-09-24'),

('Seagate 2TB Hard Drive', 'Computers', 4.4, 69.99, '2025-09-23'),

('Boat Rockerz 550 Headphones', 'Electronics', 4.3, 49.99, '2025-09-22'),

('Mi Smart Band 8', 'Wearables', 4.4, 39.99, '2025-09-21');

SELECT * FROM Products;

ARITHEMATIC OPERATORS

```
SELECT ProductName,
    Price,
    Price + (Price * 0.10) AS Price_With_Tax
FROM Products;

SELECT ProductName,
    Price,
    Price - (Price * 0.20) AS Discounted_Price
FROM Products;

SELECT ProductName,
    Price,
```

```
    Rating,
    Price / Rating AS Price_Per_Rating
FROM Products;

SELECT ProductName,
    Price,
    Price + 50 AS Increased_Price
FROM Products;
SELECT ProductName,
    Price,
    Price % 10 AS Price_Remainder
FROM Products;
```

COMPARISION OPERATORS

```
SELECT *
FROM Products
WHERE Price > 500;

SELECT ProductName, Rating, Price
FROM Products
WHERE Rating = 4.8;

SELECT ProductName, SaleDate, Price
FROM Products
WHERE SaleDate >= '2025-10-01';
```

LOGICAL OPERATORS

```
SELECT ProductName, Category, Price
```

```
FROM Products
WHERE Category = 'Electronics' AND Price > 100;

SELECT ProductName, Rating, Price
FROM Products
WHERE Rating = 4.5 OR Price < 50;

SELECT ProductName, Category
FROM Products
WHERE NOT Category = 'Fashion';

SELECT ProductName, Category, Rating, Price
FROM Products
WHERE Category = 'Home Appliances' AND Rating >= 4.5 AND Price < 200;
```

SPECIAL OPERATORS

```
SELECT ProductName, Category, Price
FROM Products
WHERE Category IN ('Electronics', 'Computers');

SELECT ProductName, Category, Price
FROM Products
WHERE Category NOT IN ('Fashion', 'Accessories');

SELECT ProductName, Category
FROM Products
WHERE ProductName LIKE 'A%';
```

```
SELECT ProductName, SaleDate
FROM Products
WHERE SaleDate IS NOT NULL;
```

AGGERGATORS

```
SELECT COUNT(*) AS TotalProducts
FROM Products;

SELECT AVG(Price) AS AveragePrice
FROM Products;

SELECT MAX(Price) AS HighestPrice
FROM Products;

SELECT MIN(Price) AS LowestPrice
FROM Products;
```