K.Maniteja-2403A53045

BATCH-24BTCAICYB02

Table Name: Products

Fields: Product_ID, ProductName, Category, ManufactureDate, Quantity, PricePerUnit, Status

Queries:

1. Create the schema/structure for the Products table.

5QL> create table Products (Product_ID int,ProductName Char(50),Category Char(50),ManufactureDate DATE,Quantity Int,PricePerUnit float,Status Char(20)); Table created.

2. Insert at least 7 records into the Products table.

```
SQL> INSERT INTO Products (Product_ID, ProductName, Category, ManufactureDate, Quantity, PricePerUnit, Status)
2 VALUES (101, 'Laptop Pro 15', 'Electronics', DATE '2024-02-15', 25, 65000.00, 'In Stock');
1 row created.

SQL> INSERT INTO Products (Product_ID, ProductName, Category, ManufactureDate, Quantity, PricePerUnit, Status)
2 VALUES (102, 'Office Chair Model X', 'Furniture', DATE '2023-10-10', 12, 8500.00, 'In Stock');
1 row created.

SQL> INSERT INTO Products (Product_ID, ProductName, Category, ManufactureDate, Quantity, PricePerUnit, Status)
2 VALUES (103, 'Wireless Headphones', 'Electronics', DATE '2024-05-22', 50, 2200.00, 'In Stock');
1 row created.

SQL> INSERT INTO Products (Product_ID, ProductName, Category, ManufactureDate, Quantity, PricePerUnit, Status)
2 VALUES (104, 'Coffee Table', 'Furniture', DATE '2022-11-05', 8, 4500.00, 'Out of Stock');
1 row created.

SQL> INSERT INTO Products (Product_ID, ProductName, Category, ManufactureDate, Quantity, PricePerUnit, Status)
2 VALUES (105, 'Smartphone Z20', 'Electronics', DATE '2024-03-10', 30, 30000.00, 'In Stock');
1 row created.

SQL> INSERT INTO Products (Product_ID, ProductName, Category, ManufactureDate, Quantity, PricePerUnit, Status)
2 VALUES (106, 'Gaming Mouse', 'Electronics', DATE '2023-12-01', 15, 2500.00, 'In Stock');
1 row created.

SQL> INSERT INTO Products (Product_ID, ProductName, Category, ManufactureDate, Quantity, PricePerUnit, Status)
2 VALUES (106, 'Gaming Mouse', 'Electronics', DATE '2023-12-01', 15, 2500.00, 'In Stock');
1 row created.

SQL> INSERT INTO Products (Product_ID, ProductName, Category, ManufactureDate, Quantity, PricePerUnit, Status)
2 VALUES (107, 'Air Purifier', 'Home Appliances', DATE '2024-04-15', 18, 12500.00, 'In Stock');
1 row created.
```

3. Retrieve the ProductName, Category, and Quantity of all products.

SQL> SELECT ProductName, Category, Quantity 2 from Products;	
PRODUCTNAME	
CATEGORY	QUANTITY
Laptop Pro 15 Electronics	25
Office Chair Model X Furniture	12
Wireless Headphones Electronics	50
PRODUCTNAME	
CATEGORY	YTITMAUQ
Coffee Table Furniture	8
Smartphone Z20 Electronics	30
Gaming Mouse Electronics	15
PRODUCTNAME	
CATEGORY	QUANTITY
Air Purifier Home Appliances	18
7 rows selected. SQL>	

4. Retrieve the products manufactured after 2024-01-01.

1. Retrieve the products manaractured after 2021 01 01.		
SQL> SELECT * 2 FROM Products 3 WHERE ManufactureDate > DATE '2024-01-01';		
PRODUCT_ID PRODUCTNAME		
CATEGORY	MANUFACTU	QUANTITY
PRICEPERUNIT STATUS		
101 Laptop Pro 15 Electronics 65000 In Stock	15-FEB-24	25
103 Wireless Headphones Electronics 2200 In Stock	22-MAY-24	50
PRODUCT_ID PRODUCTNAME		
CATEGORY	MANUFACTU	QUANTITY
PRICEPERUNIT STATUS		
105 Smartphone Z20 Electronics 30000 In Stock	10-MAR-24	30
107 Air Purifier Home Appliances	15-APR-24	18
PRODUCT_ID PRODUCTNAME		
CATEGORY	MANUFACTU	QUANTITY
PRICEPERUNIT STATUS		
12500 In Stock		

5. Retrieve the Product_ID and ProductName where the Status is "In Stock".

```
SQL> SELECT Product_ID, ProductName
2 FROM Products
3 WHERE Status = 'In Stock';

PRODUCT_ID PRODUCTNAME

101 Laptop Pro 15
102 Office Chair Model X
103 Wireless Headphones
105 Smartphone Z20
106 Gaming Mouse
107 Air Purifier

6 rows selected.

SQL>
```

6. Update the Status to "Out of Stock" for the product with Product_ID = 105.

```
SQL> UPDATE Products
2 SET Status = 'Out of Stock'
3 WHERE Product_ID = 105;
1 row updated.
```

7. Add a new column called TotalValue and calculate it as Quantity * PricePerUnit for all rows.

```
SQL> ALTER TABLE Products
2 ADD TotalValue DECIMAL(15, 2);

Table altered.

SQL>
SQL> UPDATE Products
2 SET TotalValue = Quantity * PricePerUnit;

7 rows updated.
```

8. Delete products where the Quantity is less than 10.

```
SQL> DELETE FROM Products
2 WHERE Quantity < 10;
1 row deleted.
```

9. Increase the PricePerUnit by 8% for products where the Category is "Electronics".

```
SQL> UPDATE Products
2  SET PricePerUnit = PricePerUnit * 1.08
3  WHERE Category = 'Electronics';
4 rows updated.
```

10. Delete all products where the Status is "Discontinued".

```
SQL> DELETE FROM Products
2 WHERE Status = 'Discontinued';
0 rows deleted.
```

Note: The name of the Products table should be as Products followed by last 4 digits of your roll

number.(ex:Products1537).

Sample Output:

Screenshot should contain the system time as present below

For every query the output screen must be pasted.

Sample Output:

1. Create the schema/structure for the Orders table.

SQL> create table orders_CO(oid int,oname char(10));

Table created.

2. Insert at least 7 records into the Orders table.

SQL> insert into orders_C0 values(1, 'mobile');

1 row created.