# Day 2

Name : DHANAPAL Date : 25/7/2024

### Create a DBMS using OLTP for ECOMMERCE.

- 1. Fetch all customers and display if there are any order names.
- 2. Fetch all the order names placed from a particular location.
- 3. What is the max price of products from a particular category?
- 4. Display any product with the product name like mobile, speaker.
- 5. Create a function that calculates 10% GST from the original price.
- 6. Create a stored procedure that increases all the product prices by 100. Ensure Atomicity.

### Step1: Create Tables

#### Table 1: Ecom\_Customer

```
CREATE TABLE Ecom_Customer (
    CustomerID INT PRIMARY KEY IDENTITY,
    CustomerName NVARCHAR(50),
    City NVARCHAR(50)
);
```

# Table 2 : Ecom\_Product

```
CREATE TABLE Ecom_Product (
    ProductID INT PRIMARY KEY IDENTITY,
    ProductName NVARCHAR(50),
    Category NVARCHAR(50),
    Price DECIMAL(10, 2)

);
```

#### Table 3 : Ecom\_Order

```
ICREATE TABLE Ecom_Order (
        OrderID INT PRIMARY KEY IDENTITY,
        CustomerID INT,
        OrderDate DATE,
        FOREIGN KEY (CustomerID) REFERENCES Ecom_Customer(CustomerID)
```

#### Table 4 : Ecom\_OrderDetails

```
CREATE TABLE Ecom_OrderDetails (
    OrderDetailID INT PRIMARY KEY IDENTITY,
    OrderID INT,
    ProductID INT,
    Quantity INT,
    FOREIGN KEY (OrderID) REFERENCES Ecom_Order(OrderID),
    FOREIGN KEY (ProductID) REFERENCES Ecom_Product(ProductID)
);
```

### Step 2 : Insert Sample Data

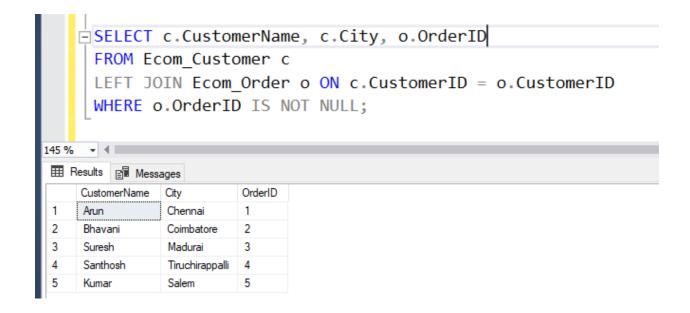
#### Ecom\_Customer

#### Ecom\_Product

### Ecom\_Order

### **Ecom\_OrderDetails**

### Step 3: Fetch all customers and display if there are any order names



Step 4: Fetch all the order names placed from a particular location

```
DECLARE @Location NVARCHAR(50) = 'Chennai';

SELECT c.CustomerName, o.OrderID

FROM Ecom_Customer c

JOIN Ecom_Order o ON c.CustomerID = o.CustomerID

WHERE c.City = @Location;

Results Messages

CustomerName OrderID

Arun 1
```

### Step 5: Find the max price of products from a particular category

```
DECLARE @Category NVARCHAR(50) = 'Electronics';

SELECT MAX(Price) AS MaxPrice
FROM Ecom_Product
WHERE Category = @Category;

Messages

MaxPrice
1 15000.00
```

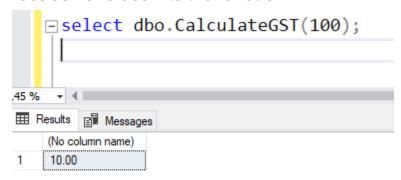
### Step 6: Display any product with the product name as like mobile, speaker



# Step 7: Create a function that calculates 10% GST from the original price

```
CREATE FUNCTION CalculateGST (@OriginalPrice DECIMAL(10, 2))
RETURNS DECIMAL(10, 2)
AS
BEGIN
RETURN @OriginalPrice * 0.10;
END;
```

#### Pass Some Values into the Function:



Step 8: Create a stored procedure that increases all the product prices by 100

```
CREATE PROCEDURE IncreaseProductPrices
AS

BEGIN

UPDATE Ecom_Product
SET Price = Price + 100;
END;
```

# It Increases all the Product Price in Ecom\_Product table by 100

