

NOTES LINK : <https://chatgpt.com/share/32dbf558-bf67-4545-90d5-83eff8bf6a9a>

Certainly! Here's a table format that represents the entities (Products and Customers) and their attributes, along with some example data.

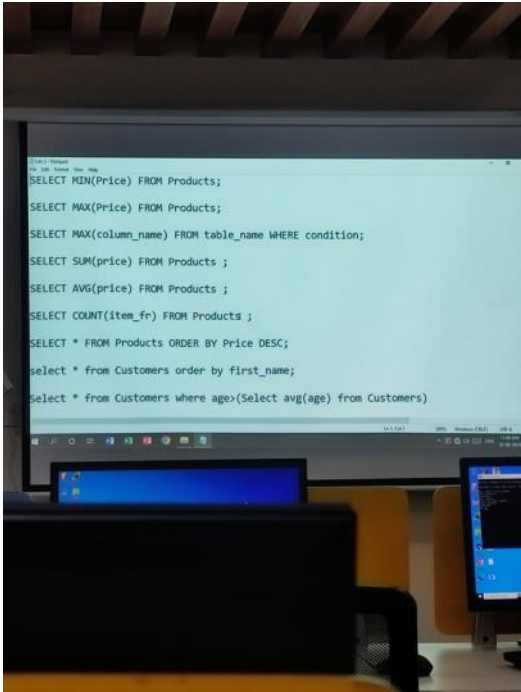
Entity: Products

| ProductID | ItemName     | Price | Category    | StockQuantity |
|-----------|--------------|-------|-------------|---------------|
| 1         | Laptop       | 800   | Electronics | 50            |
| 2         | Headphones   | 50    | Electronics | 150           |
| 3         | Coffee Maker | 120   | Home        | 75            |
| 4         | Smartphone   | 600   | Electronics | 100           |
| 5         | Desk Lamp    | 30    | Home        | 200           |

Entity: Customers

| CustomerID | First_Name | Last_Name | Age | Email                  | City        |
|------------|------------|-----------|-----|------------------------|-------------|
| 1          | John       | Doe       | 28  | john.doe@example.com   | New York    |
| 2          | Jane       | Smith     | 34  | jane.smith@example.com | Los Angeles |
| 3          | Alice      | Johnson   | 40  | alice.j@example.com    | Chicago     |
| 4          | Bob        | Brown     | 23  | bob.brown@example.com  | Houston     |
| 5          | Carol      | Davis     | 30  | carol.d@example.com    | Miami       |

Example SQL Queries Using These Tables:



INSERT INTO Products (ProductID, ItemName, Price, Category, StockQuantity) VALUES( 1, 'Laptop', 800, 'Electronic', 50), (2, 'Headphones', 50, 'Electronics', 150), (3, 'Coffee Maker', 120, 'Home', 75), (4, 'Smartphone', 600, 'Electronics', 100), (5, 'Desk Lamp', 30, 'Home', 200));

-- Step 1: Create the Products table CREATE TABLE Products ( ProductID INT PRIMARY KEY, ItemName VARCHAR(50), Price DECIMAL(10, 2), Category VARCHAR(50), StockQuantity INT ); -- Step 2: Insert data into the Products table INSERT INTO Products (ProductID, ItemName, Price, Category, StockQuantity) VALUES (1, 'Laptop', 800.00, 'Electronics', 50), (2, 'Headphones', 50.00, 'Electronics', 150), (3, 'Coffee Maker', 120.00, 'Home', 75), (4, 'Smartphone', 600.00, 'Electronics', 100), (5, 'Desk Lamp', 30.00, 'Home', 200);

CREATE TABLE Products ( ProductID INT PRIMARY KEY, ItemName VARCHAR(50), Price DECIMAL(10, 2), Category VARCHAR(50), StockQuantity INT );

INSERT INTO Products (ProductID, ItemName, Price, Category, StockQuantity) VALUES (1, 'Laptop', 800, 'Electronics', 50);

INSERT INTO Products1 (ProductID, ItemName, Price, Category, StockQuantity) VALUES (2, 'Headphones', 50, 'Electronics', 150); INSERT INTO Products1 (ProductID, ItemName, Price, Category, StockQuantity) VALUES (3, 'Coffee Maker', 120, 'Home', 75); INSERT INTO Products1 (ProductID, ItemName, Price, Category, StockQuantity) VALUES (4, 'Smartphone', 600, 'Electronics', 100); INSERT INTO Products1 (ProductID, ItemName, Price, Category, StockQuantity) VALUES (5, 'Desk Lamp', 30, 'Home', 200);

CREATE TABLE Customers ( CustomerID NUMBER PRIMARY KEY, First\_Name VARCHAR2(15), Last\_Name VARCHAR2(10), Age NUMBER, Email VARCHAR2(20), City VARCHAR2(10) );

```
INSERT INTO Customers (CustomerID, First_Name, Last_Name, Age, Email, City) VALUES (1, 'John', 'Doe', 28, 'john.doe@example.com', 'New York');
```

```
INSERT INTO Customers (CustomerID, First_Name, Last_Name, Age, Email, City) VALUES (2, 'Jane', 'Smith', 34, 'jane.smith@example.com', 'Los Angeles'); INSERT INTO Customers (CustomerID, First_Name, Last_Name, Age, Email, City) VALUES (3, 'Alice', 'Johnson', 40, 'alice.j@example.com', 'Chicago'); INSERT INTO Customers (CustomerID, First_Name, Last_Name, Age, Email, City) VALUES (4, 'Bob', 'Brown', 23, 'bob.brown@example.com', 'Houston'); INSERT INTO Customers (CustomerID, First_Name, Last_Name, Age, Email, City) VALUES (5, 'Carol', 'Davis', 30, 'carol.d@example.com', 'Miami');
```

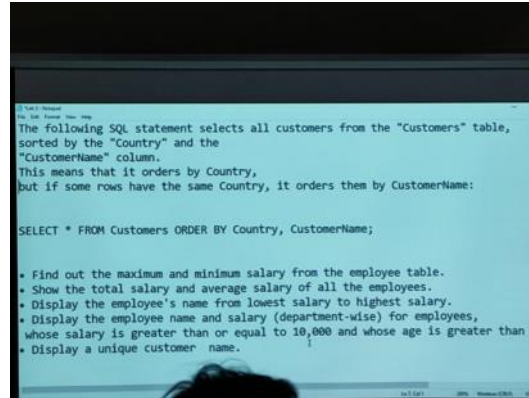
Certainly! Here's how you can create the Employees and Customers tables with appropriate columns for the SQL queries you've outlined.

### Creating the Employees Table

```
sql
Copy code
-- Create the Employees table
CREATE TABLE Employees (
  EmployeeID NUMBER PRIMARY KEY,
  EmployeeName VARCHAR2(50),
  Salary NUMBER(10, 2),
  Age NUMBER,
  Department VARCHAR2(50)
);
```

### Creating the Customers Table

```
sql
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-- Create the Customers table
CREATE TABLE Customers (
  CustomerID NUMBER PRIMARY KEY,
  CustomerName VARCHAR2(50),
  Country VARCHAR2(50)
);
```



### Inserting Sample Data into the Employees Table

```
sql
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-- Insert sample data into Employees table
INSERT INTO Employees (EmployeeID, EmployeeName, Salary, Age, Department) VALUES
(1, 'Alice Johnson', 9500, 30, 'HR');
INSERT INTO Employees (EmployeeID, EmployeeName, Salary, Age, Department) VALUES
(2, 'Bob Brown', 12000, 28, 'IT');
INSERT INTO Employees (EmployeeID, EmployeeName, Salary, Age, Department) VALUES
(3, 'Carol Davis', 15000, 35, 'IT');
INSERT INTO Employees (EmployeeID, EmployeeName, Salary, Age, Department) VALUES
(4, 'David Smith', 9000, 40, 'Finance');
INSERT INTO Employees (EmployeeID, EmployeeName, Salary, Age, Department) VALUES
(5, 'Eva Green', 11000, 26, 'HR');
```

### Inserting Sample Data into the Customers Table

```
sql
Copy code
-- Insert sample data into Customers table
INSERT INTO Customers (CustomerID, CustomerName, Country) VALUES
(1, 'John Doe', 'USA');
INSERT INTO Customers (CustomerID, CustomerName, Country) VALUES
(2, 'Jane Smith', 'Canada');
INSERT INTO Customers (CustomerID, CustomerName, Country) VALUES
(3, 'Alice Johnson', 'USA');
INSERT INTO Customers (CustomerID, CustomerName, Country) VALUES
(4, 'Bob Brown', 'UK');
INSERT INTO Customers (CustomerID, CustomerName, Country) VALUES
(5, 'Carol Davis', 'Canada');
```

```
CREATE TABLE Employees ( EmployeeID NUMBER PRIMARY KEY, EmployeeName VARCHAR2(15),Salary
NUMBER(10, 2), Age NUMBER,Department VARCHAR2(15));
```