TASK 7

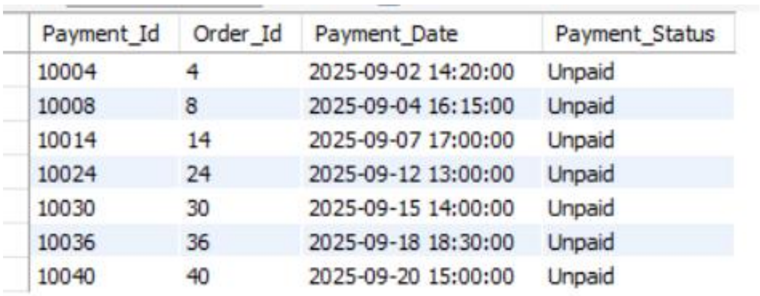
VIEW

-- CREATE VIEW

-- Create a View of paymentStatus is Unpaid. This view shows Payment_Status that are considered Unpaid.

```
CREATE VIEW PaymentStatus_Unpaid AS

SELECT Payment_Id, Order_Id, Payment_Date, Payment_Status

FROM Payments

WHERE Payment_Status = 'Unpaid' ;
```

```
SELECT * FROM PaymentStatus_Unpaid;
```



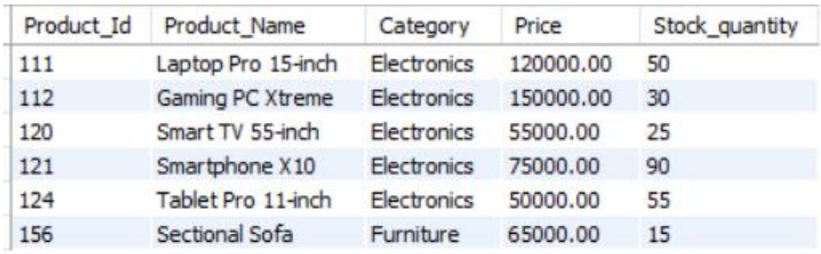
Payment_Id	Order_Id	Payment_Date	Payment_Status
10004	4	2025-09-02 14:20:00	Unpaid
10008	8	2025-09-04 16:15:00	Unpaid
10014	14	2025-09-07 17:00:00	Unpaid
10024	24	2025-09-12 13:00:00	Unpaid
10030	30	2025-09-15 14:00:00	Unpaid
10036	36	2025-09-18 18:30:00	Unpaid
10040	40	2025-09-20 15:00:00	Unpaid

-- CREATE VIEW

-- Create a View of highPrice of Products. price greater than Rs.50000.00 .

```
CREATE VIEW HighPrice AS

SELECT Product_Id, Product_Name, Category, Price, Stock_quantity

FROM  Products

WHERE price >= 50000 ;
```

```
SELECT * FROM HighPrice ;
```

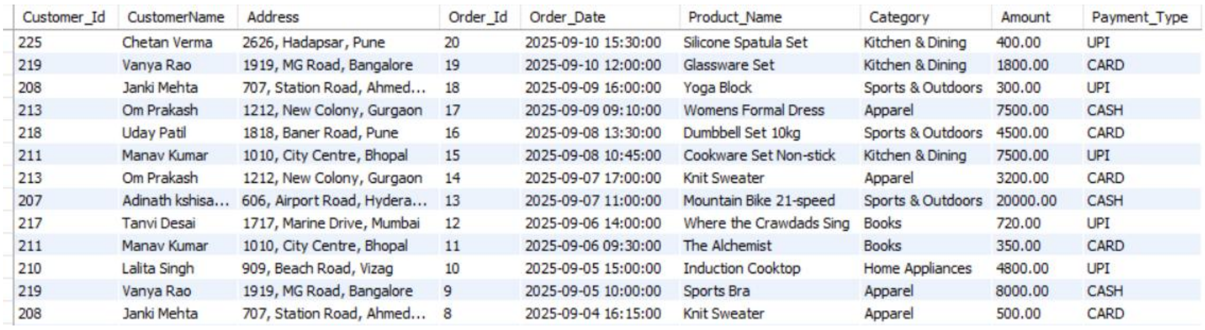


Product_Id	Product_Name	Category	Price	Stock_quantity
111	Laptop Pro 15-inch	Electronics	120000.00	50
112	Gaming PC Xtreme	Electronics	150000.00	30
120	Smart TV 55-inch	Electronics	55000.00	25
121	Smartphone X10	Electronics	75000.00	90
124	Tablet Pro 11-inch	Electronics	50000.00	55
156	Sectional Sofa	Furniture	65000.00	15

-- CREATE VIEW [JOIN]

-- Create a View of CustomerOrders. This view combines data from the Customers, Orders, and Products tables to show orders, including the customer's name, the product ordered, and the order amount.

```
        CREATE VIEW CustomerOrders AS

        SELECT C.Customer_Id, C.Full_Name AS CustomerName, C.Address, O.Order_Id,
        O.Order_Date, P.Product_Name, P.Category, O.Amount, O.Payment_Type

        FROM Customers C

        JOIN Orders O ON C.Customer_Id = O.Customer_Id

        JOIN Products P ON O.Product_Id = P.Product_Id

        ORDER BY O.Order_Date DESC ;

SELECT * FROM CustomerOrders ;
```



Customer_Id	CustomerName	Address	Order_Id	Order_Date	Product_Name	Category	Amount	Payment_Type
225	Chetan Verma	2626, Hadapsar, Pune	20	2025-09-10 15:30:00	Silicone Spatula Set	Kitchen & Dining	400.00	UPI
219	Vanya Rao	1919, MG Road, Bangalore	19	2025-09-10 12:00:00	Glassware Set	Kitchen & Dining	1800.00	CARD
208	Janki Mehta	707, Station Road, Ahmed...	18	2025-09-09 16:00:00	Yoga Block	Sports & Outdoors	300.00	UPI
213	Om Prakash	1212, New Colony, Gurgaon	17	2025-09-09 09:10:00	Womens Formal Dress	Apparel	7500.00	CASH
218	Uday Patil	1818, Baner Road, Pune	16	2025-09-08 13:30:00	Dumbbell Set 10kg	Sports & Outdoors	4500.00	CARD
211	Manav Kumar	1010, City Centre, Bhopal	15	2025-09-08 10:45:00	Cookware Set Non-stick	Kitchen & Dining	7500.00	UPI
213	Om Prakash	1212, New Colony, Gurgaon	14	2025-09-07 17:00:00	Knit Sweater	Apparel	3200.00	CARD
207	Adinath kshisa...	606, Airport Road, Hydera...	13	2025-09-07 11:00:00	Mountain Bike 21-speed	Sports & Outdoors	20000.00	CASH
217	Tanvi Desai	1717, Marine Drive, Mumbai	12	2025-09-06 14:00:00	Where the Crawdads Sing	Books	720.00	UPI
211	Manav Kumar	1010, City Centre, Bhopal	11	2025-09-06 09:30:00	The Alchemist	Books	350.00	CARD
210	Lalita Singh	909, Beach Road, Vizag	10	2025-09-05 15:00:00	Induction Cooktop	Home Appliances	4800.00	UPI
219	Vanya Rao	1919, MG Road, Bangalore	9	2025-09-05 10:00:00	Sports Bra	Apparel	8000.00	CASH
208	Janki Mehta	707, Station Road, Ahmed...	8	2025-09-04 16:15:00	Knit Sweater	Apparel	500.00	CARD

-- CREATE VIEW [GROUP BY]

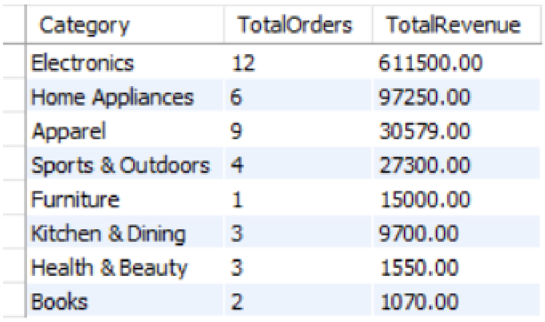
-- Create a View of CategorySales. The total Revenue generated for each product category using GROUP BY.

```
        CREATE VIEW CategorySales AS

        SELECT P.Category, COUNT(O.Order_Id) AS TotalOrders, SUM(O.Amount) AS TotalRevenue

        FROM Products P

        JOIN Orders O ON P.Product_Id = O.Product_Id

        GROUP BY P.Category

        ORDER BY TotalRevenue DESC ;  --


SELECT * FROM CategorySales ;
```

-- Querying VIEW

-- Retrieves data from the view. CategorySales It Show data from view

```
SELECT * FROM CategorySales ;
```



Category	TotalOrders	TotalRevenue
Electronics	12	611500.00
Home Appliances	6	97250.00
Apparel	9	30579.00
Sports & Outdoors	4	27300.00
Furniture	1	15000.00
Kitchen & Dining	3	9700.00
Health & Beauty	3	1550.00
Books	2	1070.00

-- DROP VIEW

-- The Drop View of HighPrice . is used delete the definition of a view from the database schema.

DROP VIEW HighPrice ;

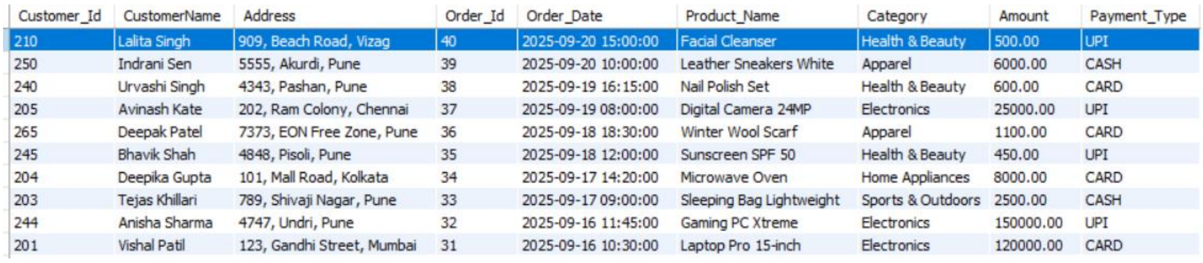
-- DELETE VIEW

-- Delete the customer with Customer_Id = 210 From CustomerOrders View.

DELETE FROM CustomerOrders

WHERE Customer_Id = 210 ; -- The row for Customer_Id 210 is permanently removed from the customers table.

--BEFOR DELETE



Customer_Id	CustomerName	Address	Order_Id	Order_Date	Product_Name	Category	Amount	Payment_Type
210	Lalita Singh	909, Beach Road, Vizag	40	2025-09-20 15:00:00	Facial Cleanser	Health & Beauty	500.00	UPI
250	Indrani Sen	5555, Akurdi, Pune	39	2025-09-20 10:00:00	Leather Sneakers White	Apparel	6000.00	CASH
240	Urvashi Singh	4343, Pashan, Pune	38	2025-09-19 16:15:00	Nail Polish Set	Health & Beauty	600.00	CARD
205	Avinash Kate	202, Ram Colony, Chennai	37	2025-09-19 08:00:00	Digital Camera 24MP	Electronics	25000.00	UPI
265	Deepak Patel	7373, EON Free Zone, Pune	36	2025-09-18 18:30:00	Winter Wool Scarf	Apparel	1100.00	CARD
245	Bhavik Shah	4848, Pisoli, Pune	35	2025-09-18 12:00:00	Sunscreen SPF 50	Health & Beauty	450.00	UPI
204	Deepika Gupta	101, Mall Road, Kolkata	34	2025-09-17 14:20:00	Microwave Oven	Home Appliances	8000.00	CARD
203	Tejas Khillari	789, Shivaji Nagar, Pune	33	2025-09-17 09:00:00	Sleeping Bag Lightweight	Sports & Outdoors	2500.00	CASH
244	Anisha Sharma	4747, Undri, Pune	32	2025-09-16 11:45:00	Gaming PC Xtreme	Electronics	150000.00	UPI
201	Vishal Patil	123, Gandhi Street, Mumbai	31	2025-09-16 10:30:00	Laptop Pro 15-inch	Electronics	120000.00	CARD

-- WITH CHECK OPTION

-- First CREATE new VIEW PuneCustomerChecked it save address from Pune City.

CREATE VIEW PuneCustomersChecked AS

SELECT Customer_Id, Full_Name, Address

FROM Customers

WHERE Address LIKE '%Pune%'

WITH CHECK OPTION;

SELECT * FROM PuneCustomersChecked ;