

USE ecommerce_db;

-- 1) Create a View: User Order Summary

```
CREATE VIEW UserOrderSummary AS
SELECT u.user_id, u.name, COUNT(o.order_id) AS total_orders,
       COALESCE(SUM(p.amount), 0) AS total_spent
FROM Users u
LEFT JOIN Orders o ON u.user_id = o.user_id
LEFT JOIN Payments p ON o.order_id = p.order_id
GROUP BY u.user_id, u.name;
```

-- Get all user order summaries

```
SELECT * FROM UserOrderSummary;
```

user_id	name	total_orders	total_spent
1	Aditya Patil	1	56000
2	Bhushan Chavan	1	6998
3	Chetan Salunkhe	0	0
4	Dinesh Jadhav	1	998
5	Ganesh Kadam	1	11297
6	Tushar Patil	1	27598
7	Akshay Jadhav	0	0
8	Ashutosh Bankar	0	0
9	Vijay Sawant	0	0
10	Pratik Pakhale	0	0
11	Rushi Kale	0	0
12	Roshan Punekar	0	0

-- Get top 5 customers by spending

```
SELECT name, total_spent
FROM UserOrderSummary
ORDER BY total_spent DESC
LIMIT 5;
```

name	total_spent
Aditya Patil	56000
Tushar Patil	27598
Ganesh Kadam	11297
Bhushan Chavan	6998
Dinesh Jadhav	998

-- 2) Create a View: Product Sales Report

```
CREATE VIEW ProductSalesReport AS
SELECT p.product_id, p.name AS product_name, c.category_name,
       COALESCE(SUM(oi.quantity), 0) AS total_quantity_sold,
       COALESCE(SUM(oi.price * oi.quantity), 0) AS total_revenue
FROM Products p
JOIN Categories c ON p.category_id = c.category_id
LEFT JOIN OrderItems oi ON p.product_id = oi.product_id
GROUP BY p.product_id, p.name, c.category_name;
```

-- Get all product sales

```
SELECT * FROM ProductSalesReport;
```

product_id	product_name	category_name	total_quantity_sold	total_revenue
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1	Laptop	Electronics	2	80000
4	Smartphone	Electronics	1	4999
5	Headphones	Electronics	1	8500
2	T-shirt	Fashion & Clothing	1	1999
6	Jeans	Fashion & Clothing	3	2697
3	Novel	Books	5	6186
8	Microwave Oven	Home Appliances	0	0
7	Cricket Bat	Sports	2	998
9	Doll	Toys	0	0
10	Face Cream	Beauty & Health	0	0

-- Top 3 best-selling products

```
SELECT product_name, total_quantity_sold
FROM ProductSalesReport
ORDER BY total_quantity_sold DESC
LIMIT 3;
```

product_name	total_quantity_sold
Novel	5
Jeans	3
Laptop	2

-- 3) Create a View: Order Details with Payments

```
CREATE VIEW OrderDetailsWithPayments AS
SELECT o.order_id, u.name AS customer, o.order_date, o.status,
       SUM(oi.price * oi.quantity) AS order_total,
       p.amount AS payment_amount, p.method AS payment_method, p.payment_date
FROM Orders o
JOIN Users u ON o.user_id = u.user_id
JOIN OrderItems oi ON o.order_id = oi.order_id
JOIN Payments p ON o.order_id = p.order_id
GROUP BY o.order_id, u.name, o.order_date, o.status, p.amount, p.method, p.payment_date;
```

-- Get all orders with payments

```
SELECT * FROM OrderDetailsWithPayments;
```

order_id	customer	order_date	status	order_total	payment_amount	payment_method	payment_date
1	Aditya Patil	9/24/2025 16:50	Delivered	58588	56000	Net Banking	9/24/2025 17:04
3	Bhushan Chavan	9/24/2025 16:50	Shipped	6998	6998	Debit Card	9/24/2025 17:04
4	Dinesh Jadhav	9/24/2025 16:50	Pending	998	998	Cash on Delivery	9/24/2025 17:04
5	Ganesh Kadam	9/24/2025 16:50	Pending	11197	11297	UPI	9/24/2025 17:04
6	Tushar Patil	9/24/2025 16:50	Pending	27598	27598	Credit Card	9/24/2025 17:04

-- Pending orders only

```
SELECT * FROM OrderDetailsWithPayments
WHERE status = 'Pending';
```

order_id	customer	order_date	status	order_total	payment_amount	payment_method	payment_date
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4	Dinesh Jadhav	9/24/2025 16:50	Pending	998	998	Cash on Delivery	9/24/2025 17:04
5	Ganesh Kadam	9/24/2025 16:50	Pending	11197	11297	UPI	9/24/2025 17:04
6	Tushar Patil	9/24/2025 16:50	Pending	27598	27598	Credit Card	9/24/2025 17:04

-- 4) Create View: Pending Orders

CREATE VIEW PendingOrders AS

SELECT o.order_id, u.name AS customer_name, o.order_date, o.status

FROM Orders o

JOIN Users u ON o.user_id = u.user_id

WHERE o.status = 'Pending';

-- List all active customers

SELECT * FROM PendingOrders;

order_id	customer_name	order_date	status
4	Dinesh Jadhav	9/24/2025 16:50	Pending
5	Ganesh Kadam	9/24/2025 16:50	Pending
6	Tushar Patil	9/24/2025 16:50	Pending

-- 5) Create View: Category Revenue

CREATE VIEW CategoryRevenue AS

SELECT c.category_name,

SUM(oi.price * oi.quantity) AS total_revenue

FROM Categories c

JOIN Products p ON c.category_id = p.category_id

JOIN OrderItems oi ON p.product_id = oi.product_id

GROUP BY c.category_name;

-- Highest earning categories

SELECT * FROM CategoryRevenue

ORDER BY total_revenue DESC;

category_name	total_revenue
Electronics	93499
Books	6186
Fashion & Clothing	4696
Sports	998

-- 6) Create View: Payment Summary by Method

CREATE VIEW PaymentSummary AS

SELECT method AS payment_method,

COUNT(payment_id) AS total_transactions,

SUM(amount) AS total_amount

FROM Payments

GROUP BY method;

-- Show total paid by each method

SELECT * FROM PaymentSummary;

payment_method	total_transactions	total_amount
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Net Banking	1	56000
Debit Card	1	6998
Cash on Delivery	1	998
UPI	1	11297
Credit Card	1	27598

-- 7) Create View: Customer Latest Order

```
CREATE VIEW CustomerLatestOrder AS
SELECT u.user_id, u.name, o.order_id, o.order_date
FROM Users u
JOIN Orders o ON u.user_id = o.user_id
WHERE o.order_date = (
    SELECT MAX(o2.order_date)
    FROM Orders o2
    WHERE o2.user_id = u.user_id
);
```

-- Show each customer's most recent order

```
SELECT * FROM CustomerLatestOrder;
```

user_id	name	order_id	order_date
1	Aditya Patil	1	9/24/2025 16:50
2	Bhushan Chavan	3	9/24/2025 16:50
4	Dinesh Jadhav	4	9/24/2025 16:50
5	Ganesh Kadam	5	9/24/2025 16:50
6	Tushar Patil	6	9/24/2025 16:50

-- 8) Create View: High-Value Orders

```
CREATE VIEW HighValueOrders AS
SELECT o.order_id, u.name AS customer, SUM(oi.price * oi.quantity) AS total_order_value
FROM Orders o
JOIN Users u ON o.user_id = u.user_id
JOIN OrderItems oi ON o.order_id = oi.order_id
GROUP BY o.order_id, u.name
HAVING total_order_value > 20000;
```

-- Show all high-value orders

```
SELECT * FROM HighValueOrders;
```

order_id	customer	total_order_value
1	Aditya Patil	58588
6	Tushar Patil	27598