

## QUERY REPORT - Online Retail Sales Database Design

### View: Full Sales Report

```
CREATE VIEW SalesReport AS
SELECT
    O.OrderID,
    C.Name AS CustomerName,
    C.Email,
    P.ProductName,
    P.Category,
    OI.Quantity,
    OI.Price AS UnitPrice,
    (OI.Quantity * OI.Price) AS TotalItemAmount,
    O.OrderDate,
    O.Status,
    PM.PaymentMethod,
    PM.Amount AS PaymentAmount,
    PM.PaymentDate
FROM Orders O
JOIN Customers C ON O.CustomerID = C.CustomerID
JOIN OrderItems OI ON O.OrderID = OI.OrderID
JOIN Products P ON OI.ProductID = P.ProductID
LEFT JOIN Payments PM ON O.OrderID = PM.OrderID;
```

### Query: Total Sales per Product

```
SELECT
    P.ProductName,
    SUM(OI.Quantity) AS TotalUnitsSold,
    SUM(OI.Quantity * OI.Price) AS TotalRevenue
FROM OrderItems OI
JOIN Products P ON OI.ProductID = P.ProductID
GROUP BY P.ProductName;
```

### Query: Total Sales per Customer

```
SELECT
    C.Name AS CustomerName,
    C.Email,
    SUM(PM.Amount) AS TotalSpent
FROM Payments PM
JOIN Orders O ON PM.OrderID = O.OrderID
JOIN Customers C ON O.CustomerID = C.CustomerID
GROUP BY C.CustomerID;
```

### Query: Daily Sales Summary

```
SELECT
    DATE(O.OrderDate) AS SalesDate,
    COUNT(DISTINCT O.OrderID) AS TotalOrders,
    SUM(OI.Quantity * OI.Price) AS DailyRevenue
FROM Orders O
```

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```
JOIN OrderItems OI ON O.OrderID = OI.OrderID
GROUP BY DATE(O.OrderDate)
ORDER BY SalesDate DESC;
```

### Query: Top Selling Products

```
SELECT
    P.ProductName,
    SUM(OI.Quantity) AS UnitsSold
FROM OrderItems OI
JOIN Products P ON OI.ProductID = P.ProductID
GROUP BY P.ProductName
ORDER BY UnitsSold DESC
LIMIT 5;
```

### Query: Orders with Multiple Products

```
SELECT
    O.OrderID,
    C.Name AS CustomerName,
    COUNT(OI.ProductID) AS ProductCount
FROM Orders O
JOIN Customers C ON O.CustomerID = C.CustomerID
JOIN OrderItems OI ON O.OrderID = OI.OrderID
GROUP BY O.OrderID
HAVING COUNT(OI.ProductID) > 1;
```

### How to Use the View

```
-- After creating the view, you can run:
SELECT * FROM SalesReport;
```