1. **Sales Table**

**Step 1: Create the Example Table**

CREATE TABLE Sales (

SaleID INT PRIMARY KEY,

Salesperson VARCHAR(50),

Region VARCHAR(50),

Product VARCHAR(50),

Quantity INT,

SaleAmount DECIMAL(10,2)

);

**Step 2: Insert Sample Data**

INSERT INTO Sales (SaleID, Salesperson, Region, Product, Quantity, SaleAmount) VALUES

(1, 'Alice', 'North', 'Laptop', 1, 1000.00),

(2,'Bob', 'South', 'Mouse', 3, 75.00),

(3, 'Alice', 'North', 'Monitor', 2, 300.00),

(4, 'Charlie', 'East', 'Keyboard', 1, 50.00),

(5,'Bob', 'South', 'Monitor', 1, 150.00),

(6,'Alice', 'North', 'Mouse', 2, 50.00),

(7,'Charlie', 'East','Laptop', 2, 2000.00),

(8, 'David', 'West','Laptop', 1, 1100.00),

(9, 'David', 'West', 'Mouse', 4, 100.00),

(10, 'Eve', 'South', 'Monitor', 3, 450.00),

(11, 'Eve', 'South', 'Keyboard', 2, 100.00),

(12, 'Eve','South', 'Mouse', 1, 25.00),

(13, 'Alice', 'North','Keyboard', 1, 60.00),

(14, 'Bob', 'South', 'Laptop', 1, 1200.00),

(15, 'Charlie', 'East', 'Mouse', 2, 50.00);

**SOLUTION:**

DROP TABLE IF EXISTS Sales;

CREATE TABLE Sales (

SaleID INT PRIMARY KEY,

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SELECT \* FROM Sales;

SELECT Salesperson, SUM(Quantity) AS Total\_Quantity

FROM Sales GROUP BY Salesperson;

SELECT Salesperson FROM Sales GROUP BY Salesperson

HAVING SUM(Quantity) > 5;

SELECT Salesperson, COUNT(\*) AS Num\_Products\_Sold

FROM Sales GROUP BY Salesperson;

SELECT Region FROM Sales GROUP BY Region

HAVING SUM(SaleAmount) > 1000;

SELECT Salesperson FROM Sales GROUP BY Salesperson

HAVING COUNT(\*) > 2;

SELECT Product, SUM(SaleAmount) AS Total\_Sales FROM Sales

GROUP BY Product HAVING SUM(SaleAmount) > 500;

SELECT Region, Product, SUM(Quantity) AS Total\_Quantity

FROM Sales GROUP BY Region, Product;

SELECT Salesperson FROM Sales GROUP BY Salesperson

HAVING COUNT(DISTINCT Product) > 1;

SELECT Region, Product, AVG(Quantity) AS Avg\_Quantity

FROM Sales GROUP BY Region, Product HAVING AVG(Quantity) > 1;

SELECT Salesperson, SUM(SaleAmount) AS Total\_Sale FROM Sales

GROUP BY Salesperson HAVING SUM(SaleAmount) BETWEEN 500 AND 1500;

SELECT Product, SUM(Quantity) AS Total\_Units FROM Sales

GROUP BY Product HAVING SUM(Quantity) > 3;

SELECT DISTINCT Salesperson FROM Sales

WHERE Product = 'Laptop';

SELECT Salesperson, Region, SUM(SaleAmount) AS Total\_Sales

FROM Sales GROUP BY Salesperson, Region

HAVING SUM(SaleAmount) > 500;

SELECT Salesperson, Region FROM Sales

GROUP BY Salesperson, Region

HAVING COUNT(DISTINCT Product) >= 2;

SELECT Product FROM Sales GROUP BY Product

HAVING COUNT(DISTINCT Region) > 1;

SELECT Product, COUNT(\*) AS Sales\_Count FROM Sales

GROUP BY Product HAVING COUNT(\*) >= 2;

SELECT Region, Salesperson, SUM(Quantity) AS Total\_Quantity

FROM Sales GROUP BY Region, Salesperson;

SELECT Salesperson, COUNT(\*) AS Transactions, SUM(SaleAmount) AS Total\_Sales

FROM Sales GROUP BY Salesperson

HAVING COUNT(\*) > 3 AND SUM(SaleAmount) > 1000;

SELECT Region, AVG(SaleAmount) AS Avg\_Sale

FROM Sales GROUP BY Region HAVING AVG(SaleAmount) > 200;

SELECT Region, Product, SUM(Quantity) AS Total\_Quantity

FROM Sales GROUP BY Region, Product

HAVING SUM(Quantity) > 3;