SALES TABLE

use sales;

CREATE TABLE Sales (

SaleID INT PRIMARY KEY,

Salesperson VARCHAR(50),

Region VARCHAR(50),

Product VARCHAR(50),

Quantity INT,

SaleAmount DECIMAL(10,2)

);

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);

SELECT saleID, SUM(quantity) AS total\_quantity FROM Sales GROUP BY saleID;

SELECT saleID, SUM(quantity) AS total\_quantity FROM Sales GROUP BY saleID HAVING SUM(quantity) > 5;

SELECT Salesperson, COUNT(DISTINCT Product) AS product\_count FROM Sales GROUP BY Salesperson;

SELECT Region, SUM(SaleAmount) AS total\_sales FROM Sales GROUP BY Region HAVING SUM(SaleAmount) > 1000;

SELECT Salesperson, COUNT(\*) AS transactions FROM Sales GROUP BY Salesperson HAVING COUNT(\*) > 2;

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\_sales FROM Sales GROUP BY Salesperson HAVING SUM(SaleAmount) BETWEEN 500 AND 1500;

SELECT Product FROM Sales GROUP BY Product HAVING SUM(Quantity) > 3;

SELECT DISTINCT Salesperson FROM Sales WHERE LOWER(Product) = 'laptop';

SELECT Salesperson, Region 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 FROM Sales GROUP BY Product HAVING COUNT(\*) >= 2;

SELECT Region, Salesperson, SUM(Quantity) FROM Sales GROUP BY Region, Salesperson;

SELECT Salesperson FROM Sales GROUP BY Salesperson HAVING COUNT(\*) > 3 AND SUM(SaleAmount) > 1000;

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

SELECT Region, Product FROM Sales GROUP BY Region, Product HAVING SUM(Quantity) > 3;