# SQL Commands for Sales Table Queries

1. Find total quantity sold by each salesperson  
SELECT Salesperson, SUM(Quantity) AS TotalQuantity  
FROM Sales  
GROUP BY Salesperson;

2. Find salespersons who sold more than 5 items in total  
SELECT Salesperson, SUM(Quantity) AS TotalQuantity  
FROM Sales  
GROUP BY Salesperson  
HAVING SUM(Quantity) > 5;

3. Find number of products sold by each salesperson  
SELECT Salesperson, COUNT(DISTINCT Product) AS ProductCount  
FROM Sales  
GROUP BY Salesperson;

4. List regions where total sale amount exceeded $1000  
SELECT Region, SUM(SaleAmount) AS TotalSales  
FROM Sales  
GROUP BY Region  
HAVING SUM(SaleAmount) > 1000;

5. Show salespersons who made more than 2 sales transactions  
SELECT Salesperson, COUNT(\*) AS Transactions  
FROM Sales  
GROUP BY Salesperson  
HAVING COUNT(\*) > 2;

6. Find total sale amount by product, show only products with over $500 in sales  
SELECT Product, SUM(SaleAmount) AS TotalSales  
FROM Sales  
GROUP BY Product  
HAVING SUM(SaleAmount) > 500;

7. Show total quantity sold of each product in each region  
SELECT Region, Product, SUM(Quantity) AS TotalQuantity  
FROM Sales  
GROUP BY Region, Product;

8. Find salespersons who sold more than 1 type of product  
SELECT Salesperson, COUNT(DISTINCT Product) AS ProductTypes  
FROM Sales  
GROUP BY Salesperson  
HAVING COUNT(DISTINCT Product) > 1;

9. Find average quantity per product sold per region, where average > 1  
SELECT Region, Product, AVG(Quantity) AS AvgQuantity  
FROM Sales  
GROUP BY Region, Product  
HAVING AVG(Quantity) > 1;

10. Show salespersons whose total sale amount is between $500 and $1500  
SELECT Salesperson, SUM(SaleAmount) AS TotalSales  
FROM Sales  
GROUP BY Salesperson  
HAVING SUM(SaleAmount) BETWEEN 500 AND 1500;

11. List top-performing products (more than 3 units sold in total)  
SELECT Product, SUM(Quantity) AS TotalQuantity  
FROM Sales  
GROUP BY Product  
HAVING SUM(Quantity) > 3;

12. List salespersons who sold laptops  
SELECT DISTINCT Salesperson  
FROM Sales  
WHERE Product = 'Laptop';

13. Find total sale amount per salesperson per region, only where > $500  
SELECT Salesperson, Region, SUM(SaleAmount) AS TotalSales  
FROM Sales  
GROUP BY Salesperson, Region  
HAVING SUM(SaleAmount) > 500;

14. Find salespersons who sold at least 2 different products in a single region  
SELECT Salesperson, Region, COUNT(DISTINCT Product) AS ProductTypes  
FROM Sales  
GROUP BY Salesperson, Region  
HAVING COUNT(DISTINCT Product) >= 2;

15. Find products sold in more than one region  
SELECT Product, COUNT(DISTINCT Region) AS RegionCount  
FROM Sales  
GROUP BY Product  
HAVING COUNT(DISTINCT Region) > 1;

16. Show number of sales per product, hide products with fewer than 2 sales  
SELECT Product, COUNT(\*) AS SalesCount  
FROM Sales  
GROUP BY Product  
HAVING COUNT(\*) >= 2;

17. Find region-wise total quantity sold by each salesperson  
SELECT Region, Salesperson, SUM(Quantity) AS TotalQuantity  
FROM Sales  
GROUP BY Region, Salesperson;

18. Find salespersons who made more than 3 transactions and sales > $1000  
SELECT Salesperson, COUNT(\*) AS Transactions, SUM(SaleAmount) AS TotalSales  
FROM Sales  
GROUP BY Salesperson  
HAVING COUNT(\*) > 3 AND SUM(SaleAmount) > 1000;

19. Find average sale amount per region, show only regions with average > $200  
SELECT Region, AVG(SaleAmount) AS AvgSale  
FROM Sales  
GROUP BY Region  
HAVING AVG(SaleAmount) > 200;

20. List regions and products where more than 3 units were sold  
SELECT Region, Product, SUM(Quantity) AS TotalQuantity  
FROM Sales  
GROUP BY Region, Product  
HAVING SUM(Quantity) > 3;