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);
```

1.Find total quantity sold by each salesperson.

select salesperson, sum(quantity) as total_quantity_sold from sales group by salesperson;

2.**Find salespersons who sold more than 5 items in total.**

select salesperson from sales where quantity >5;

3.**Find number of products sold by each salesperson.**

select salesperson,count(product) as products_sold from sales group by salesperson;

4.**List regions where total sale amount exceeded $1000.**

select region,sum(saleamount) as total_sale_amount from sales group by region having sum(saleamount) >1000;

5.**Show salespersons who made more than 2 sales transactions.**

select salesperson,count(salesperson) as sales_transactions from sales group by salesperson having count(salesperson) >2;

6.**Find total sale amount by product, and show only products that made over $500 in sales.**

select sum(saleamount) as total_sale_amount,product from sales group by product having sum(saleamount)>500;

7.**Show the total quantity sold of each product in each region.**

select product,region,sum(quantity) as total_quantity_sold from sales group by product,region;

8.Find salespersons who sold more than 1 type of product.

select salesperson,count(product) as sold_more_than_1_product from sales group by product having count(product)>3;

9.Find the average quantity per product sold per region, where the average is greater than 1.

select product,region,avg(quantity) as average_quantity from sales group by product,region having count(quantity)>1;

10.Show salespersons whose total sale amount is between $500 and $1500.

select salesperson,sum(saleamount) as total_sale_amount 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,count(product) as top_performing_products from sales group by product having count(product)>3;

12.List salespersons who sold laptops.

select salesperson,product from sales where product in ('laptop');

13.Find total sale amount per salesperson per region, only where it exceeds $500.

select salesperson,region,sum(saleamount) as total_sale_amount 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,count(product),region from sales group by salesperson,region having count(product) >= 2;

15.Find products that were sold in more than one region.

select product,count(region) from sales group by product having count(region)>1;

16.Show total number of sales per product and hide products with fewer than 2 sales.

select product,count(*) from sales group by product having count(*)>=2;

17.Find region-wise total quantity sold by each salesperson.

select salesperson,region,sum(quantity) as total_quantity from sales group by region,salesperson;

18.Find salespersons who made more than 3 transactions and total sales amount is over $1000.

select salesperson,count(salesperson) as transactions,sum(saleamount) as total_sales_amount from sales group by salesperson having count(salesperson)>3 and sum(saleamount)>1000;

19.Find average sale amount per region and show only regions with average above $200.

select region,avg(saleamount) as average_sale_amount 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 units_were_sold from sales group by region,product having sum(quantity)>3;