

-- 1. List all customer names alphabetically.

```
SELECT customerName FROM customers ORDER BY customerName;
```

-- 2. Show all product names in lowercase.

```
SELECT LOWER(productName) AS productName FROM products;
```

-- 3. Display the orderNumber and status of all orders.

```
SELECT orderNumber, status FROM orders;
```

-- 4. List all employees sorted by last name in descending order.

```
SELECT * FROM employees ORDER BY lastName DESC;
```

-- 5. Show the MSRP of all products greater than 100.

```
SELECT productName, MSRP FROM products WHERE MSRP > 100;
```

-- 6. Display the length of each customer name.

```
SELECT customerName, LENGTH(customerName) AS nameLength FROM
customers;
```

-- 7. Find all customers from the USA.

```
SELECT customerName, country FROM customers WHERE country = 'USA';
```

-- 8. Show the most recent 5 orders based on orderDate.

```
SELECT orderNumber, orderDate FROM orders ORDER BY orderDate DESC
LIMIT 5;
```

-- 9. List all orders where the status starts with 'Shipped'.

```
SELECT orderNumber, status FROM orders WHERE status LIKE 'Shipped%';
```

-- 10. Extract the year from the orderDate for each order.

```
SELECT orderNumber, YEAR(orderDate) AS orderYear FROM orders;
```

-- 11. Count the number of orders placed each year.

```
SELECT YEAR(orderDate) AS year, COUNT(*) AS totalOrders FROM orders
GROUP BY year;
```

-- 12. Find orders placed between '2003-01-01' and '2003-12-31'.

```
SELECT orderNumber, orderDate FROM orders
WHERE orderDate BETWEEN '2003-01-01' AND '2003-12-31';
```

-- 13. List all products sorted by MSRP in descending order.

```
SELECT productName, MSRP FROM products ORDER BY MSRP DESC;
```

-- 14. Show the average MSRP of all products.

```
SELECT AVG(MSRP) AS averageMSRP FROM products;
```

-- 15. Count how many customers are in each country.

```
SELECT country, COUNT(*) AS customerCount FROM customers GROUP BY
country;
```

-- 16. Calculate the total order value for each orderNumber
(rounded).

```
SELECT orderNumber, ROUND(SUM(priceEach * quantityOrdered), 2) AS
totalOrderValue
FROM orderdetails
GROUP BY orderNumber;
```

-- 17. Show productCodes with total quantity ordered > 500.

```
SELECT productCode, SUM(quantityOrdered) AS totalQuantity
FROM orderdetails
GROUP BY productCode
HAVING totalQuantity > 500;
```

-- 18. Find the maximum quantity ordered for each productCode.

```
SELECT productCode, MAX(quantityOrdered) AS maxQuantity
FROM orderdetails
GROUP BY productCode;
```

-- 19. List cities and the number of customers in each.

```
SELECT city, COUNT(*) AS customerCount
FROM customers
GROUP BY city;
```

-- 20. Find the number of employees in each job title.

```
SELECT jobTitle, COUNT(*) AS employeeCount
FROM employees
GROUP BY jobTitle;
```

-- 21. Show the minimum quantity ordered per orderNumber.

```
SELECT orderNumber, MIN(quantityOrdered) AS minQuantity
FROM orderdetails
GROUP BY orderNumber;
```

-- 22. List the distinct product scales available.

```
SELECT DISTINCT productScale FROM products;
```

-- 23. Count the number of distinct product lines.

```
SELECT COUNT(DISTINCT productLine) AS productLineCount FROM
products;
```

-- 24. Display the total number of products.

```
SELECT COUNT(*) AS totalProducts FROM products;
```

-- 25. Show all customers with credit limits greater than 50,000.

```
SELECT customerName, creditLimit
FROM customers
WHERE creditLimit > 50000;
```