1. SELECT c.CustomerID, c.FirstName, c.LastName, AVG(o.total\_order\_amount) AS Avg\_Spent FROM customers c INNER JOIN orders o ON c.customerid = o.customerid GROUP BY c.CustomerID, c.FirstName, c.LastName ORDER BY c.customerid;

2. SELECT c.CustomerID, c.FirstName, c.LastName, MIN(o.total\_order\_amount) AS Least\_Spent FROM customers c INNER JOIN orders o ON c.customerid = o.customerid GROUP BY c.CustomerID, c.FirstName, c.LastName ORDER BY c.customerid;

3. (pending)

4. SELECT p.PaymentID, p.PaymentType, MIN(o.total\_order\_amount) AS Lowest\_transaction FROM payments p INNER JOIN orders o ON p.paymentid = o.paymentid GROUP BY p.PaymentID, p.PaymentType ORDER BY p.paymentid ASC;

5. SELECT c.country, COUNT(orderid) AS cnt FROM customers c INNER JOIN orders o ON c.customerid = o.customerid GROUP BY c.country HAVING cnt >= 100 AND cnt <= 200 ORDER BY c.country;

6. SELECT c.city, MAX(o.total\_order\_amount) AS Total\_order\_amount FROM customers c INNER JOIN orders o ON c.customerid = o.customerid GROUP BY c.city ORDER BY Total\_order\_amount DESC LIMIT 5;

7. SELECT c.city, MIN(o.total\_order\_amount) AS Total\_order\_amount FROM customers c INNER JOIN orders o ON c.customerid = o.customerid GROUP BY c.city ORDER BY Total\_order\_amount LIMIT 5;

8. SELECT c.city, AVG(o.total\_order\_amount) AS amount FROM customers c INNER JOIN orders o ON c.customerid = o.customerid GROUP BY c.city ORDER BY c.city;

9. SELECT c.categoryid, c.categoryname, COUNT(DISTINCT p.sub\_category) AS cnt FROM category c INNER JOIN products p ON c.categoryid = p.category\_id GROUP BY c.categoryid, c.categoryname ORDER BY c.categoryid;

10. SELECT ProductID, ((Sale\_price + Market\_price)/2) AS avg FROM products ORDER BY productid;

11. SELECT sub\_category, MIN(sale\_price) AS Min\_sale\_price FROM products GROUP BY sub\_category ORDER BY sub\_category;

12. SELECT brand, type, AVG(market\_price) AS Avg\_market\_price FROM products GROUP BY brand, type ORDER BY brand, type;

13. SELECT c.CustomerID, c.FirstName, c.LastName, SUM(o.Total\_order\_amount) AS total FROM customers c INNER JOIN orders o ON c.customerid = o.customerid GROUP BY c.CustomerID, c.FirstName, c.LastName ORDER BY c.customerid;

14. SELECT c.CustomerID, c.FirstName, c.LastName, COUNT(o.orderid) AS Number\_of\_orders FROM customers c INNER JOIN orders o ON c.customerid = o.customerid GROUP BY c.CustomerID, c.FirstName, c.LastName ORDER BY Number\_of\_orders DESC, c.CustomerID LIMIT 10;

15. (pending)

16. SELECT c.categoryid, c.categoryname, SUM(od.quantity) AS total\_quantity FROM category c INNER JOIN products p ON c.categoryid = p.category\_id INNER JOIN orderdetails od ON p.productid = od.productid GROUP BY c.categoryid, c.categoryname ORDER BY total\_quantity DESC LIMIT 5;