**RDBMS Task #3 Answer:**

1. SELECT customer\_id, COUNT(order\_id) AS total\_orders FROM Orders GROUP BY customer\_id;
2. SELECT product\_id, SUM(quantity \* unit\_price) AS total\_revenue FROM OrderDetails

GROUP BY product\_id;

1. SELECT product\_id, MAX(unit\_price) AS highest\_price FROM OrderDetails;
2. SELECT DISTINCT c.\* FROM Customers c

JOIN Orders o ON c.customer\_id = o.customer\_id

WHERE o.order\_date >= CURDATE() - INTERVAL 30 DAY;

1. SELECT o.customer\_id, SUM(p.payment\_amount) AS total\_paid FROM Payments p

JOIN Orders o ON p.order\_id = o.order\_id

GROUP BY o.customer\_id;

1. SELECT p.category, SUM(od.quantity) AS products\_sold FROM Products p

JOIN OrderDetails od ON p.product\_id = od.product\_id

GROUP BY p.category;

1. SELECT \* FROM Orders WHERE order\_status = 'Pending';
2. SELECT AVG(total\_amount) AS avg\_order\_value FROM Orders;
3. SELECT o.customer\_id, SUM(p.payment\_amount) AS total\_spent FROM Payments p

JOIN Orders o ON p.order\_id = o.order\_id

GROUP BY o.customer\_id

ORDER BY `total\_spent` DESC LIMIT 5;

1. SELECT p.\* FROM Products p

LEFT JOIN OrderDetails od ON p.product\_id = od.product\_id

WHERE od.product\_id IS NULL;