1. Find the Total Number of Orders for Each Customer.

SELECT c.customer\_id, CONCAT(c.first\_name, ' ', c.last\_name) AS customer\_name, COUNT(o.order\_id) AS total\_orders

FROM Customers c LEFT JOIN Orders o ON c.customer\_id = o.customer\_id GROUP BY c.customer\_id, c.first\_name, c.last\_name

ORDER BY total\_orders DESC;

1. Find the Total Sales Amount for Each Product (Revenue per Product)

SELECT p.product\_id, p.product\_name,

SUM(od.quantity \* od.unit\_price) AS total\_revenue

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

GROUP BY p.product\_id, p.product\_name

ORDER BY total\_revenue DESC;

3. Find the Most Expensive Product Sold. SELECT

SELECT p.product\_id, p.product\_name,

MAX(od.unit\_price) AS highest\_price

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

GROUP BY p.product\_id, p.product\_name

ORDER BY highest\_price DESC LIMIT 1;

4.Get the List of Customers Who Have Placed.

Orders in the Last 30 Days

SELECT DISTINCT c.customer\_id,CONCAT(c.first\_name, ' ', c.last\_name) AS customer\_name, c.email, c.phone

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

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

ORDER BY o.order\_date DESC;

5. Calculate the Total Amount Paid by Each Customer.

SELECT c.customer\_id, CONCAT(c.first\_name, ' ', c.last\_name) AS

customer\_name, SUM(p.payment\_amount) AS total\_amount\_paid

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

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

GROUP BY c.customer\_id, c.first\_name, c.last\_name

ORDER BY total\_amount\_paid DESC;

6. Get the Number of Products Sold by Category

SELECT p.category, SUM(od.quantity) AS total\_products\_sold

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

GROUP BY p.category

ORDER BY total\_products\_sold DESC;

7. List All Orders That Are Pending (i.e., Orders that

haven't been shipped yet

SELECT o.order\_id, CONCAT(c.first\_name, ' ', c.last\_name) AS

customer\_name, o.order\_date, o.total\_amount, o.order\_status

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

WHERE o.order\_status = 'Pending'

8. Find the Average Order Value (Total Order Amount /

Number of Orders)

SELECT AVG(o.total\_amount) AS average\_order\_value FROM Orders o;

9. List the Top 5 Customers Who Have Spent the Most Money

SELECT c.customer\_id, CONCAT(c.first\_name, ' ', c.last\_name) AS customer\_name, SUM(p.payment\_amount) AS total\_spent

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

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

GROUP BY c.customer\_id, c.first\_name, c.last\_name

ORDER BY total\_spent DESC LIMIT 5;

10. Find the Products That Have Never Been Sold

SELECT p.product\_id, p.product\_name

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

WHERE od.product\_id IS NULL;