## RDBMS Task 3

## Retail Store Database

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

SELECT c.first\_name,c.last\_name, COUNT(o.order\_id) FROM customers c LEFT JOIN orders o ON c.customer\_id=o.customer\_id GROUP BY c.customer\_id

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

SELECT p.product\_name as Product, (o.quantity\*o.unit\_price) as Total\_Sales\_Amount FROM order\_details o RIGHT JOIN products p ON p.product\_id=o.product\_id GROUP BY p.product\_id ORDER BY Total\_Sales\_Amount DESC

1. **Find the Most Expensive Product Sold**

SELECT p.product\_name, o.unit\_price FROM products p JOIN order\_details o ON p.product\_id=o.product\_id GROUP BY p.product\_id ORDER BY o.unit\_price DESC LIMIT 1

1. **Get the List of Customers Who Have Placed Orders in the Last 30 Days**

SELECT c.customer\_id, c.first\_name, c.last\_name, c.email o.order\_date 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;

1. **Calculate the Total Amount Paid by Each Customer**

SELECT c.customer\_id, c.first\_name, c.last\_name, c.email ,SUM(p.payment\_amount) as Amount FROM customers c JOIN orders o ON o.customer\_id=c.customer\_id JOIN payments p ON p.order\_id=o.order\_id GROUP BY c.customer\_id

1. **Get the Number of Products Sold by Category**

SELECT p.category, SUM(o.quantity) as total\_quantity\_sold FROM products p JOIN order\_details o ON p.product\_id=o.product\_id GROUP BY p.category ORDER BY total\_quantity\_sold DESC

1. **List All Orders That Are Pending (i.e., Orders that haven't been shipped yet)**

SELECT o.order\_id, o.customer\_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 c.customer\_id=o.customer\_id WHERE o.order\_status='Pending'

1. **Find the Average Order Value (Total Order Amount / Number of Orders)**

SELECT AVG(total\_amount) AS average\_order\_value FROM orders;

1. **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\_Amount FROM customers c JOIN orders o ON o.customer\_id=c.customer\_id JOIN payments p ON p.order\_id=o.order\_id GROUP BY c.customer\_id ORDER BY Total\_Amount DESC LIMIT 5

1. **Find the Products That Have Never Been Sold**

SELECT p.product\_id, p.product\_name, p.category, p.category, p.price FROM products p LEFT JOIN order\_details od ON p.product\_id=od.product\_id WHERE p.product\_id IS NULL