

# RDBMS TASK 3

## RETAIL

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

```
SELECT c.first_name, c.last_name, COUNT(o.order_id) AS total_orders FROM
customers c
JOIN orders o ON c.customer_id = o.customer_id
group BY c.phone
```

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### 2. Find the Total Number of Orders for Each Customer.

```
SELECT product_name, SUM(od.quantity*unit_price) AS total_sum
from products p
JOIN orderdetails od ON p.product_id = od.product_id
GROUP BY p.product_name
```

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### 3. Find the Most Expensive Product Sold

```
SELECT product_name, SUM(od.quantity*unit_price) AS total_sum
from products p
JOIN orderdetails od ON p.product_id = od.product_id
GROUP BY p.product_name
```

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### 4. Get the List of Customers Who Have Placed Orders in the Last 30 Days

```
SELECT c.first_name, c.last_name,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
```

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### 5. Calculate the Total Amount Paid by Each Customer.

```
SELECT c.first_name, c.last_name, sum(o.total_amount ) AS total_amount
FROM customers c
JOIN orders o ON c.customer_id = o.customer_id
GROUP BY c.first_name, c.last_name
```

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## 6. Get the Number of Products Sold by Category

```
SELECT P.category, SUM(OD.quantity)
FROM products P
JOIN orderdetails OD ON P.product_id = OD.product_id
GROUP BY P.category
```

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

```
SELECT OD.order_id
FROM orderdetails OD
JOIN orders o ON OD.order_id = o.order_id
WHERE o.order_status = 'pending'
GROUP BY OD.order_id
```

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## 8. Find the Average Order Value (Total Order Amount / Number of Orders)

```
SELECT SUM(o.total_amount) AS total_order_amount,
COUNT(o.order_id) AS number_of_orders,
SUM(o.total_amount) / COUNT(o.order_id) AS average_order_value
FROM Orders o
```

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

```
SELECT  DISTINCT  c.first_name,  c.last_name,  sum(o.total_amount)  AS
total_amount_spent FROM customers c
JOIN orders o ON c.customer_id = o.customer_id
GROUP BY c.customer_id
ORDER BY total_amount_spent DESC
LIMIT 5
```

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## 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.order_id IS NULL;
```

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