

-- Queries --

Q1. What are total Orders of Customer Named "Graham Brabin"

Query:

```
Select CustomerName,Count(OrderID) Total_Count  
From Customers  
Join Orders  
on(Customers.CustomerID=Orders.CustomerID)  
Where CustomerName='Graham Brabin';
```

Result:

|   | CustomerName  | Total_Count |
|---|---------------|-------------|
| ▶ | Graham Brabin | 2           |

Q2. What is the total StockQuantity of Various Categories of Phones

Query:

```
Select CategoryName,sum(StockQuantity) As Total  
From Product  
Join Categories  
on(Product.CategoryID=Categories.CategoryID)  
where Productname like "% Phone"  
Group by CategoryName;
```

Results:

|   | CategoryName     | Total |
|---|------------------|-------|
| ▶ | Basic Phone      | 75    |
|   | Gaming Phone     | 160   |
|   | Waterproof Phone | 35    |
|   | FourG Phone      | 30    |
|   | FiveG Phone      | 10    |
|   | Camera Phone     | 30    |

Q3. What are the total orders received from 1 January 2024 to 1 March 2024

Query:

```
Select Count(OrderID) As Orders_Received
From Orders
where OrderDate <= '2024-01-01' or OrderDate >='2024-03-01';
```

Result:

|   | Orders_Received |
|---|-----------------|
| ▶ | 19              |

Q4. Provide the details of Maximum Products ordered

Query:

```
Select ProductName,max(quantity) As Maximum
From Product
Join Orderdetails
on(Product.ProductID=Orderdetails.ProductID)
Group by Product.ProductID
order by Maximum Desc
Limit 1;
```

Result:

|   | ProductName   | Maximum |
|---|---------------|---------|
| ▶ | Lenovo Labtop | 13      |

Q5. Provide Discount on Labtops

Query:

```
Select ProductName,Discount_amount
From Product
join Discounts
On(Product.ProductID=Discounts.ProductID)
where productname like "% Labtop";
```

Result:

|   | ProductName   | Discount_amount |
|---|---------------|-----------------|
| ▶ | Lenovo Labtop | 5000            |
|   | HP Labtop     | 5000            |
|   | Dell Labtop   | 2000            |
|   | Apple Labtop  | 6000            |
|   | Acer Labtop   | 2000            |

Q6. Provide Names of Customers who has given 5 ratings

Query:

```
Select CustomerName,Rating,Comment
from Reviews
Join Customers
on(Reviews.CustomerID=Customers.CustomerID)
where Rating = 5;
```

Result:

|   | CustomerName        | Rating | Comment   |
|---|---------------------|--------|-----------|
| ▶ | Hendrick Tunnidiff  | 5      | Excellent |
|   | Kristofer Orman     | 5      | Excellent |
|   | Sophronia Hackworth | 5      | Excellent |
|   | Alecia Simakov      | 5      | Excellent |
|   | Ruddie Brosio       | 5      | Excellent |
|   | Lawrence Daud       | 5      | Excellent |

Q7. Provide the list of Various Categories of Phones

Query:

```
Select Distinct(CategoryName)
From Categories
Join Product
on(Categories.CategoryID=Product.CategoryID)
Where Productname like '% Phone';
```

Result:

|   | CategoryName     |
|---|------------------|
| ► | Basic Phone      |
|   | Gaming Phone     |
|   | Waterproof Phone |
|   | FourG Phone      |
|   | FiveG Phone      |
|   | Camera Phone     |

Q8. Provide the Customer name who has maximum no. of orders.

Query:

```
Select CustomerName, Count(*) As Max_order
From Customers
Join orders
on(Customers.Customerid=orders.CustomerID)
Group by Customername
Order by Max_order Desc
Limit 1;
```

Result:

|   | CustomerName  | Max_order |
|---|---------------|-----------|
| ► | Trudy Clampin | 3         |

Q9. In how many days customers received their Products

Query:

```
Select CustomerName,datediff(Deliverydate,ShippingDate) as Diff
From Shipping
Join Orders
on(Shipping.OrderID=Orders.orderID)
Join Customers
on(orders.CustomerID=Customers.CustomerID);
```

Result:

|   | CustomerName        | Diff |
|---|---------------------|------|
| ▶ | Trudy Clampin       | 4    |
|   | Patrica Benoist     | 2    |
|   | Aveline Whitehurst  | 3    |
|   | Sophronia Hackworth | 3    |
|   | Stephie Echelle     | 1    |
|   | Lydon Ionnidis      | 4    |
|   | Graham Brabin       | 2    |
|   | Graham Brabin       | 4    |
|   | Taddeo Owbridge     | 2    |
|   | Kristofer Orman     | 2    |
|   | Patrica Benoist     | 3    |
|   | Trudy Clampin       | 2    |

Q10. Provide the list of Customers which have more than 2 orders

Query:

```
Select Customers.CustomerID,Customers.CustomerName
From Customers
Join Orders
On(Customers.CustomerID=Orders.CustomerID)
Group by Customers.CustomerID,Customers.CustomerName
Having Count(Orders.CustomerID)>= 2;
```

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Result:

|   | CustomerID | CustomerName       |
|---|------------|--------------------|
| ▶ | 1          | Patrica Benoist    |
|   | 2          | Trudy Clampin      |
|   | 8          | Graham Brabin      |
|   | 15         | Aveline Whitehurst |

Q11. How many LG Phones are Sold

Query:

```
Select ProductName,Quantity
From OrderDetails
Join Product
on(Orderdetails.ProductID=Product.ProductID)
Where ProductName='LG Phone';
```

Result:

|   | ProductName | Quantity |
|---|-------------|----------|
| ▶ | LG Phone    | 10       |

Q12. How many orders are received on date "20 March"

Query:

```
Select Count(Orderdate) As Orderes_recieved_on_20_March
From Orders
where orderdate="2024-03-20";
```

Result:

|   | Orderes_recieved_on_20_March |
|---|------------------------------|
| ▶ | 8                            |

Q13. What is the total Selling price of all the Phones

Query:

```
Select Sum(Price*Quantity) As Total_Price
From Product
Join Orderdetails
on(Product.ProductID=Orderdetails.ProductID)
Where ProductName like "% Phone";
```

Result:

|   | Total_Price |
|---|-------------|
| ▶ | 883000      |

Q14. What is the total Cost of Luxury Smartwatches

Query:

```
Select ProductName,CategoryName,sum(Price*StockQuantity) As Cost
From Product
Join Categories
On(Product.CategoryID=Categories.CategoryID)
where CategoryName='Luxury Smartwatches'
Group by ProductName;
```

Result:

|   | ProductName          | CategoryName        | Cost   |
|---|----------------------|---------------------|--------|
| ▶ | Apple Smartwatch     | Luxury Smartwatches | 500000 |
|   | FastTrack Smartwatch | Luxury Smartwatches | 128000 |

Q15. Provide Names of Products which are Below 4 ratings

Query:

```
Select ProductName,Rating,Comment
from Reviews
Join Product
on(Reviews.ProductID=Product.ProductID)
where Rating <= 3;
```

Result:

|   | ProductName    | Rating | Comment   |
|---|----------------|--------|-----------|
| ▶ | Acer Phone     | 1      | Good      |
|   | Samsung Phone  | 2      | Very Good |
|   | Apple Phone    | 3      | Best      |
|   | Lenovo Phone   | 3      | Best      |
|   | Micromax Phone | 2      | Very Good |
|   | OnePlus Phone  | 3      | Best      |
|   | Lenovo Labtop  | 2      | Very Good |
|   | HP Labtop      | 2      | Very Good |
|   | Dell Labtop    | 1      | Good      |
|   | Apple Labtop   | 3      | Best      |
|   | Acer Labtop    | 3      | Best      |
|   | JBL Earphone   | 1      | Good      |

Q16. Provide the details of Order No. 1010

Query:

```

Select CustomerName,ProductName,Quantity,Price,OrderDate
From Customers
Join Orders
On(Customers.CustomerID=Orders.CustomerID)
Join OrderDetails
on(Orders.OrderID=OrderDetails.OrderID)
Join Product
on(OrderDetails.ProductID=Product.ProductID)
Where Orders.OrderID=1010;

```

Result:

|   | CustomerName    | ProductName    | Quantity | Price | OrderDate  |
|---|-----------------|----------------|----------|-------|------------|
| ▶ | Kristofer Orman | Motorola Phone | 3        | 20000 | 2024-03-20 |

Q17. Provide total Discount on all Product

Query:



```

Select ProductName,Sum(Discount_Amount+Discount) As Total_Discount
From Product
Join Discounts
on(Product.ProductID=Discounts.ProductID)
Join Coupons
on(Discounts.ProductID=Coupons.ProductID)
Group BY ProductName;

```

Result:

|   | ProductName    | Total_Discount |
|---|----------------|----------------|
| ► | Acer Phone     | 1500           |
|   | Samsung Phone  | 1800           |
|   | Apple Phone    | 9000           |
|   | Nokia Phone    | 1000           |
|   | Sony Phone     | 1250           |
|   | LG Phone       | 1650           |
|   | Motorola Phone | 1200           |
|   | Lenovo Phone   | 2750           |

Q18. Provide Products list Ordered In Year 2023

Query:

```

Select ProductName,OrderDate
From Orders
Join Orderdetails
on(Orders.OrderID=Orderdetails.OrderID)
Join Product
on(Orderdetails.ProductID=Product.ProductID)
where Date_format(OrderDate,"%Y")=2023;

```

Result:

|   | ProductName          | OrderDate  |
|---|----------------------|------------|
| ► | FastTrack Smartwatch | 2023-12-20 |
|   | Apple Phone          | 2023-11-25 |
|   | Sony Phone           | 2023-11-20 |
|   | JBL Earphone         | 2023-11-16 |
|   | Dell Labtop          | 2023-12-21 |

Q19. What is the Price of Apple Labtop after Discounts

Query:

```
Select ProductName,Price,Price-Sum(Discount_amount+Discount) As Final_Price
From Product
Join Discounts
on(Product.ProductID=Discounts.ProductID)
Join Coupons
on(Discounts.ProductID=Coupons.ProductID)
Where ProductName ="Apple Labtop"
Group BY Product.ProductID;
```

Result:

|   | ProductName  | Price  | Final_Price |
|---|--------------|--------|-------------|
| ▶ | Apple Labtop | 100000 | 93000       |

Q20. How Many Phones are available in Stock after Delivery

Query:

```
Select ProductName,StockQuantity-sum(Quantity) as Pending_products
From Product
Join OrderDetails
on(Product.ProductID=Orderdetails.ProductID)
Where Productname like '% Phone'
Group by Product.ProductID;
```

Result:

|   | ProductName    | Pending_products |
|---|----------------|------------------|
| ▶ | Acer Phone     | 5                |
|   | Apple Phone    | 19               |
|   | Nokia Phone    | 5                |
|   | Sony Phone     | 47               |
|   | LG Phone       | 20               |
|   | Motorola Phone | 37               |
|   | Lenovo Phone   | 3                |
|   | Micromax Phone | 8                |

Q21. Provide the details of Orders delivered in the Month of January

Query:

```
Select Shipping.OrderID,ProductName,Quantity,CustomerName,DeliveryDate
From Shipping
Join OrderDetails
on(Shipping.OrderID=Orderdetails.OrderID)
Join Product
on(Orderdetails.ProductID=Product.ProductID)
Join Reviews
on(Orderdetails.ProductID=Reviews.ProductID)
Join Customers
on(Reviews.CustomerID=Customers.CustomerID)
where Month(Shipping.Deliverydate)=1;
```

Result:

|   | OrderID | ProductName  | Quantity | CustomerName       | DeliveryDate |
|---|---------|--------------|----------|--------------------|--------------|
| ▶ | 1007    | Sony Phone   | 2        | Hendrick Tunnidiff | 2024-01-23   |
|   | 1013    | Vivo Phone   | 2        | Guido Rosenwald    | 2024-01-25   |
|   | 1024    | Lenovo Phone | 12       | Taddeo Owbridge    | 2024-01-11   |
|   | 1025    | RealMe Phone | 4        | Graham Brabin      | 2024-01-21   |
|   | 1029    | Acer Labtop  | 2        | Gusti Cubbit       | 2024-01-19   |

Q22. List the Customers orders details Starting with Name "A"

Query:

```

Select CustomerName,ProductName,OrderDate,Quantity
From Customers
Join Orders
On(Customers.CustomerID=Orders.CustomerID)
Join OrderDetails
on(Orders.OrderID=Orderdetails.OrderID)
Join Product
on(OrderDetails.ProductID=Product.ProductID)
Where customername LIKE "A%";

```

Result:

|   | CustomerName       | ProductName          | OrderDate  | Quantity |
|---|--------------------|----------------------|------------|----------|
| ▶ | Aveline Whitehurst | Mi Earphone          | 2024-03-15 | 9        |
|   | Aveline Whitehurst | FastTrack Smartwatch | 2024-02-25 | 5        |
|   | Alfie Fleay        | FastTrack Smartwatch | 2023-12-20 | 3        |
|   | Alon Pirdue        | Boat Earphones       | 2024-03-20 | 1        |
|   | Annadiana Vinall   | Vivo Phone           | 2024-01-22 | 2        |

Q23. In How many Days Customers received their EarPhones after Ordering them.

:

```

Select CustomerName,ProductName,OrderDate,DeliveryDate,datediff(Deliverydate,OrderDate) as Diff
From Customers
Join Orders
On(Customers.CustomerID=Orders.CustomerID)
Join OrderDetails
On(Orders.OrderID=OrderDetails.OrderID)
Join Shipping
On(Orderdetails.OrderID=Shipping.OrderID)
Join Product
On(OrderDetails.ProductID=Product.ProductID)
where ProductName like "% Earphone";

```

Result:

|   | CustomerName       | ProductName      | OrderDate  | DeliveryDate | Diff |
|---|--------------------|------------------|------------|--------------|------|
| ▶ | Aveline Whitehurst | Mi Earphone      | 2024-03-15 | 2024-03-18   | 3    |
|   | Maxy Scothorn      | Sony Earphone    | 2024-03-18 | 2024-03-22   | 4    |
|   | Petunia Mettricke  | JBL Earphone     | 2023-11-16 | 2023-11-19   | 3    |
|   | Patrica Benoist    | OnePlus Earphone | 2024-02-18 | 2024-02-20   | 2    |
|   | Lydon Ionnidis     | Apple Earphone   | 2024-02-20 | 2024-02-24   | 4    |

Q24. Provide the list of Customers Name who have given Lowest Rating to the Products

Query:

```
Select CustomerName,Rating,Comment
From Reviews
Join Customers
On(Reviews.CustomerID=Customers.CustomerID)
Where Rating=1;
```

Result:

|   | CustomerName  | Rating | Comment |
|---|---------------|--------|---------|
| ▶ | Maxy Scothorn | 1      | Good    |
|   | Dela Ferrer   | 1      | Good    |
|   | Jasmin Ollis  | 1      | Good    |

Q25. Which Categories of the Phones are Ordered the most

Query:

```
Select ProductName,CategoryName,max(Quantity) As Maximum
From Product
Join Categories
On(Product.CategoryID=Categories.CategoryID)
Join OrderDetails
On(Product.ProductID=OrderDetails.ProductID)
Where ProductName Like '% Phone'
Group By Product.ProductID
Order by Maximum Desc
Limit 1;
```

Result:

|   | ProductName  | CategoryName     | Maximum |
|---|--------------|------------------|---------|
| ▶ | Lenovo Phone | Waterproof Phone | 12      |