**Q1) List all products along with their categories.**

```
SELECT Products.Name AS ProductName, Categories.CategoryName

FROM Products

JOIN Categories ON Products.CategoryID = Categories.CategoryID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| ProductName | CategoryName |
|---|---|
| ADHD Medication | Psychiatry |
| Adrenaline Injectio... | Emergency_Medi... |
| Amoxicillin | Internal_Medicine |
| Anti-Psychotic Med... | Psychiatry |
| Antibiotic Suspensi... | Pediatrics |
| Antidepressant Ta... | Psychiatry |
| Antihistamine Coug... | Pediatrics |
| Antiseptic Wipes | Emergency_Medi... |
| Anxiolytic Medication | Psychiatry |
| Aspirin | Internal_Medicine |

Result 63

Output

**Q2) List the names of the products for which orders have been received.**

```
SELECT DISTINCT Products.Name AS ProductName

FROM Products

JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID;
```

Result Grid | Filter Rc

| ProductName |
|---|
| Aspirin |
| Metformin |
| Lisinopril |
| Simvastatin |
| Amoxicillin |
| Ibuprofen |
| Omeprazole |
| Hydrochlorothiazide |
| Gabapentin |
| Cetirizine |

Result 8

**Q3) List the names of the products for which orders have not been received.**

```
SELECT Products.Name AS ProductName

FROM Products

LEFT JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

WHERE OrderDetails.ProductID IS NULL;
```

Result Grid | Filter Rows: | Export:

| ProductName |
| --- |
| Suture Kit |
| Portable Oxygen Tank |
| Tourniquet |
| Instant Cold Pack |

Result 9

**Q4) From the categories table, which categories have witnessed the maximum sales? Please show them in descending order.**

```
SELECT Categories.CategoryName, SUM(OrderDetails.Quantity*Products.Price) AS TotalSales

FROM Categories

JOIN Products ON Products.CategoryID = Categories.CategoryID

JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

GROUP BY Categories.CategoryName

ORDER BY TotalSales DESC;
```

Result Grid  Filter Rows:

| CategoryName | TotalSales |
|---|---|
| Surgery | 10898.00 |
| Emergency_Medicine | 10793.00 |
| Internal_Medicine | 7520.49 |
| Gynecology | 4106.00 |
| Pediatrics | 4025.78 |
| Psychiatry | 3177.00 |

Result 10

**Q5) In terms of quantity, how many orders has each category received?**

```
SELECT Categories.CategoryName, SUM(OrderDetails.Quantity) AS QtySold

FROM Categories

JOIN Products ON Products.CategoryID = Categories.CategoryID

JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

GROUP BY Categories.CategoryName

ORDER BY QtySold DESC;
```

Result Grid  Filter Rows:

| CategoryName | QtySold |
|---|---|
| Internal_Medicine | 298 |
| Pediatrics | 213 |
| Gynecology | 161 |
| Psychiatry | 123 |
| Emergency_Medicine | 115 |
| Surgery | 73 |

Result 11

**Q6) Now that the orders have been sold, find out the remaining stock of each product and its value.**

```
SELECT p.Name AS ProductName,
        p.StockQuantity - COALESCE(SUM(od.Quantity),0) AS RemainingStock,
    (p.StockQuantity - COALESCE(SUM(od.Quantity),0))*p.Price AS RemainingStockValue
FROM Products p
LEFT JOIN OrderDetails od ON od.ProductID = p.ProductID
GROUP BY p.Name, p.StockQuantity, od.Quantity, p.price
ORDER BY RemainingStockValue DESC;
```

Result Grid | Filter Rows: | Export:

| ProductName | RemainingStock | RemainingStockValue |
|---|---|---|
| Ibuprofen | 441 | 28665.00 |
| Defibrillator Unit | 15 | 22500.00 |
| Simvastatin | 290 | 14790.00 |
| Kids' Cough Suppressant | 372 | 11904.00 |
| Hydrochlorothiazide | 180 | 10980.00 |
| Tramadol | 290 | 9538.10 |
| LED Surgical Light | 7 | 8750.00 |
| Pediatric Probiotic Powder | 127 | 8382.00 |
| Digestive Aid for Kids | 135 | 7425.00 |
| Cetirizine | 463 | 5093.00 |

Result 12

**Q7) Find the details of orders placed by 'Priya Singh' including product names and quantities.**

```
SELECT Orders.OrderID, Products.Name AS ProductName, OrderDetails.Quantity

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

JOIN Products ON Products.ProductID = OrderDetails.ProductID

WHERE Customers.Name = 'Priya Singh';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| OrderID | ProductName | Quantity |
|---|---|---|
| 203 | Levothyroxine | 15 |
| 203 | Gummy Multivitamins for Kids | 25 |
| 205 | Children's Allergy Relief Tablets | 5 |
| 211 | Children's Pain Relief Suspension | 5 |
| 211 | Metoprolol Succinate | 12 |
| 211 | Cetirizine | 5 |
| 213 | Probiotic Gummies for Kids | 12 |

Result 13

**Q8) Get all reviews along with product names and customer names.**

```
SELECT Customers.Name AS CustomerName, Products.Name AS ProductName, Reviews.Rating, Reviews.Comment

FROM Reviews

JOIN Customers ON Customers.CustomerID = Reviews.CustomerID

JOIN Products ON Products.ProductID = Reviews.ProductID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| CustomerName | ProductName | Rating | Comment |
|---|---|---|---|
| Rajesh Khanna | Splint Kit | 7.5 | It's a great product. Helped me a Lot |
| Amit Sharma | Losartan Potassium | 2.5 | It's pathetic and useless |
| Amit Sharma | Diazepam | 8.5 | It's a great product to recommend |
| Neha Gupta | Amoxicillin | 5.5 | Ok Ok, not largely effective |
| Priya Singh | Cetirizine | 7.0 | It's very useful in my cold |
| Priya Singh | Children's Pain Relief Suspension | 8.0 | My child was cured with this, thanks |
| Ravi Kumar | Metoprolol Succinate | 5.0 | I had a severe heart attack. So thankful for ... |
| Sonia Patel | Ovulation Test Kit for Women | 9.0 | Want to share this to the world, it's magical |
| Vikram Mehta | Simvastatin | 6.0 | Good for High Blood Pressure and Cholesterol |
| Vikram Mehta | Gabapentin | 1.0 | Let me tell you to not use this, has severe si... |

Result 14

**Q9) List all customers who have placed orders along with the order dates and shipping dates.**

```
SELECT Customers.Name, Orders.OrderDate, Shipping.ShipDate

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

JOIN Shipping ON Shipping.OrderID = Orders.OrderID;
```

Result Grid  Filter Rows:

| Name | OrderDate | ShipDate |
|---|---|---|
| Kavita Desai | 2022-05-05 | 2022-05-05 |
| Neha Gupta | 2022-09-05 | 2022-09-05 |
| Priya Singh | 2022-04-25 | 2022-04-25 |
| Pooja Rao | 2022-01-25 | 2022-01-25 |
| Priya Singh | 2022-08-30 | 2022-08-30 |
| Vikram Mehta | 2022-10-10 | 2022-10-10 |
| Amit Sharma | 2022-06-25 | 2022-06-25 |
| Anil Verma | 2022-07-12 | 2022-07-12 |
| Sonia Patel | 2022-07-15 | 2022-07-15 |
| Kavita Desai | 2022-08-21 | 2022-08-21 |

Result 15

**Q10) Find the total quantity of each product ordered.**

```
SELECT Products.Name AS ProductName, SUM(OrderDetails.Quantity) AS TotalQuantity

FROM Products

JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

GROUP BY Products.Name;
```

Result Grid  Filter Rows:

| ProductName | TotalQuantity |
|---|---|
| ADHD Medication | 20 |
| Adrenaline Injection Kit | 6 |
| Amoxicillin | 15 |
| Anti-Psychotic Medication | 5 |
| Antibiotic Suspension for Kids | 2 |
| Antidepressant Tablets | 30 |
| Antihistamine Cough Syrup | 5 |
| Antiseptic Wipes | 7 |
| Anxiolytic Medication | 12 |
| Aspirin | 50 |

Result 16

Output

**Q11) Get all orders and their respective discount amounts if they have discounts.**

```
SELECT Orders.OrderID, Discounts.DiscountAmount

FROM Orders

LEFT JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

LEFT JOIN Discounts ON Discounts.ProductID = OrderDetails.ProductID;
```

Result Grid | Filter Rows:

| OrderID | DiscountAmount |
|---|---|
| 201 | 15 |
| 201 | 35 |
| 202 | NULL |
| 202 | 60 |
| 202 | 15 |
| 202 | 30 |
| 203 | 25 |
| 203 | 100 |
| 204 | 40 |

Result 1

Output

**Q12) What is the total discount amount applied to each order?**

```
SELECT DISTINCT Orders.OrderID, COALESCE(SUM(Discounts.DiscountAmount),0) AS TotalDiscountAmount

FROM Orders

LEFT JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID

LEFT JOIN Discounts ON OrderDetails.ProductID = Discounts.ProductID

GROUP BY Orders.OrderID;
```

Result Grid | Filter Rows: | Export: | Wrap

| OrderID | TotalDiscountAmount |
|---|---|
| 201 | 50 |
| 202 | 105 |
| 203 | 125 |
| 204 | 110 |
| 205 | 20 |
| 206 | 55 |
| 207 | 65 |
| 208 | 50 |
| 209 | 35 |

Result 2

Output

**Q13) List all orders with products and their respective shipping dates.**

```
SELECT OrderDetails.OrderID, Products.Name AS ProductName, Shipping.ShipDate

FROM Products

JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

JOIN Shipping ON Shipping.OrderID = OrderDetails.OrderID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| OrderID | ProductName | ShipDate |
|---|---|---|
| 201 | Amoxicillin | 2022-05-05 |
| 201 | Tramadol | 2022-05-05 |
| 202 | Sterile Gauze Pads | 2022-09-05 |
| 202 | Children's Pain Relief Suspension | 2022-09-05 |
| 202 | Amoxicillin | 2022-09-05 |
| 202 | Early Pregnancy Test Kit | 2022-09-05 |
| 203 | Levothyroxine | 2022-04-25 |
| 203 | Gummy Multivitamins for Kids | 2022-04-25 |
| 204 | First Aid Kit | 2022-01-25 |

Result 3

Output

Action Output

**14) Find customers who have not placed any orders.**

```
SELECT Customers.Name

FROM Customers

LEFT JOIN Orders ON Orders.CustomerID = Customers.CustomerID

WHERE Orders.OrderID IS NULL;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| | Name |
|---|---|

Result 76

**Q15) Get products with their discounts if available.**

```
SELECT Products.Name AS PRODUCT_NAME, COALESCE(Discounts.DiscountAmount,"No Discount") AS DiscountAmount

FROM Products

LEFT JOIN Discounts ON Discounts.ProductID = Products.ProductID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| PRODUCT_NAME | DiscountAmount |
|---|---|
| Aspirin | 30 |
| Metformin | No Discount |
| Lisinopril | No Discount |
| Simvastatin | No Discount |
| Amoxicillin | 15 |
| Ibuprofen | No Discount |
| Omeprazole | No Discount |
| Hydrochlorothiazide | 15 |
| Gabapentin | 20 |

Result 5

**Q16) List all products that have been reviewed along with their review details.**

```
SELECT Products.Name AS ProductName, Reviews.Rating, Reviews.Comment

FROM Products

JOIN Reviews ON Reviews.ProductID = Products.ProductID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| ProductName | Rating | Comment |
|---|---|---|
| Splint Kit | 7.5 | It's a great product. Helped me a Lot |
| Losartan Potassium | 2.5 | It's pathetic and useless |
| Diazepam | 8.5 | It's a great product to recommend |
| Amoxicillin | 5.5 | Ok Ok, not largely effective |
| Cetirizine | 7.0 | It's very useful in my cold |
| Children's Pain Relief Suspension | 8.0 | My child was cured with this, thanks |
| Metoprolol Succinate | 5.0 | I had a severe heart attack. So thankful for ... |
| Ovulation Test Kit for Women | 9.0 | Want to share this to the world, it's magical |
| Simvastatin | 6.0 | Good for High Blood Pressure and Cholesterol |

Result 6

Output

Action Output

**Q17) List products that have never been reviewed.**

```
SELECT Products.ProductID, Products.Name, Reviews.Comment

FROM Products

LEFT JOIN Reviews ON Reviews.ProductID = Products.ProductID

WHERE Reviews.ProductID IS NULL;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| ProductID | Name | Comment |
|---|---|---|
| 3 | Lisinopril | NULL |
| 6 | Ibuprofen | NULL |
| 8 | Hydrochlorothiazide | NULL |
| 23 | Hemostat Clamp for Blood Vessel | NULL |
| 27 | Complete Suturing Kit | NULL |
| 37 | Fever Reducer Suspension | NULL |
| 41 | Children's Allergy Relief Tablets | NULL |
| 43 | Infant Pain Relief Drops | NULL |
| 45 | Oral Rehydration Solution for Infants | NULL |

Result 7

Output

**Q18) Find customers who have ordered products in the "Pediatrics" category.**

```
SELECT DISTINCT Customers.Name AS CustomerName, Categories.CategoryName

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

JOIN Products ON Products.ProductID = OrderDetails.ProductID

JOIN Categories ON Categories.CategoryID = Products.CategoryID

WHERE Categories.CategoryName = "Pediatrics";
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| CustomerName | CategoryName |
|---|---|
| Akash Verma | Pediatrics |
| Priya Singh | Pediatrics |
| Anil Verma | Pediatrics |
| Anita Rao | Pediatrics |
| Preeti Desai | Pediatrics |
| Neha Gupta | Pediatrics |
| Amit Bansal | Pediatrics |
| Pooja Rao | Pediatrics |
| Ravi Kumar | Pediatrics |

Result 8

Output

Action Output

| # | Time | Action | Message |
|---|---|---|---|
| 7 | 08:43:01 | SELECT Products.ProductID, Products.Name, Reviews.Comment FROM Products LEFT JO... | 25 row(s) returned |
| 8 | 08:44:06 | SELECT DISTINCT Customers.Name AS CustomerName, Categories.CategoryName FROM ... | 15 row(s) returned |

**Q19) List all customers who have reviewed a product they purchased.**

```
SELECT DISTINCT Customers.Name AS CustomerName

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

JOIN Reviews ON Reviews.ProductID = OrderDetails.ProductID

WHERE OrderDetails.ProductID = Reviews.ProductID;
```

Result Grid | Filter Rows: | Export: | Wrap C

| CustomerName |
|---|
| Kavita Desai |
| Rohit Sharma |
| Vikram Mehta |
| Neha Gupta |
| Amit Sharma |
| Priya Singh |
| Ravi Kumar |
| Sonia Patel |
| Virendra Sehwag |

Result 9

Output

**Q20) Find the top 5 most expensive products and their categories.**

```
SELECT Products.Name AS ProductName, Products.Price, Categories.CategoryName

FROM Products

JOIN Categories ON Categories.CategoryID = Products.CategoryID

ORDER BY Products.Price DESC

LIMIT 5;
```

Result Grid | Filter Rows: | Export:

| ProductName | Price | CategoryName |
|---|---|---|
| Defibrillator Unit | 1500.00 | Emergency_Medicine |
| LED Surgical Light | 1250.00 | Surgery |
| Portable Oxygen Tank | 250.00 | Emergency_Medicine |
| Adrenaline Injection Kit | 70.00 | Emergency_Medicine |
| Pediatric Probiotic Powder | 66.00 | Pediatrics |

Result 82

**Q21) List all orders where the total price exceeds Rs 500.**

```
SELECT Orders.OrderID, SUM(Products.Price*OrderDetails.Quantity) AS Total_Price

FROM Orders

JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

JOIN Products ON Products.ProductID = OrderDetails.ProductID

GROUP BY Orders.OrderID

HAVING Total_Price > 500;
```

Result Grid | Filter Rows: | Export: | Wr

| OrderID | Total_Price |
|---|---|
| 201 | 1072.25 |
| 202 | 680.90 |
| 203 | 885.50 |
| 207 | 703.86 |
| 214 | 7850.00 |
| 217 | 850.00 |
| 218 | 524.50 |
| 219 | 1530.00 |
| 220 | 600.00 |

Result 11

Output

**Q22) Find products in the "Gynecology" category with an average rating above 7.**

```
SELECT Products.Name AS ProductName, AVG(Reviews.Rating) AS AverageRating

FROM Products

JOIN Reviews ON Reviews.ProductID = Products.ProductID

JOIN Categories ON Categories.CategoryID = Products.CategoryID

WHERE Categories.CategoryName = "Gynecology"

GROUP BY Products.Name

HAVING AverageRating > 7;
```

Result Grid | Filter Rows: | Export: | Wrap

| ProductName | AverageRating |
|---|---|
| Early Pregnancy Test Kit | 9.00000 |
| Endometriosis Pain Relief Capsules | 8.50000 |
| Fertility Support Vitamins | 8.00000 |
| Ovulation Test Kit for Women | 9.00000 |
| Postpartum Recovery Support Capsules | 8.00000 |

Result 12

Output

**Q23) List customers who have placed more than 3 orders.**

```
SELECT Customers.Name, COUNT(Orders.OrderID) AS OrderCount

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

GROUP BY Customers.Name

HAVING OrderCount > 3;
```

Result Grid | Filter Rows:

| Name | OrderCount |
|---|---|
| Priya Singh | 4 |

Result 85 ×

**Q24) Find all orders that include products with a discount.**

```
SELECT DISTINCT Orders.OrderID

FROM Orders

JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

JOIN Discounts ON Discounts.ProductID = OrderDetails.ProductID
```

Result Grid | Filter Rows: | Export: | Wra

| OrderID |
|---|
| 218 |
| 201 |
| 202 |
| 242 |
| 212 |
| 203 |
| 211 |
| 216 |
| 217 |

Result 14

**Q25) List products with a price higher than the average price of all products.**

```
SELECT Name, Price

FROM Products

WHERE Price > (SELECT AVG(Price) FROM Products);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Name | Price |
|---|---|
| Ibuprofen | 65.00 |
| Hydrochlorothiazide | 61.00 |
| LED Surgical Light | 1250.00 |
| Pediatric Probiotic Powder | 66.00 |
| Adrenaline Injection Kit | 70.00 |
| Defibrillator Unit | 1500.00 |
| Portable Oxygen Tank | 250.00 |

Products 87

**Q26) Find the total number of products in each category.**

```
SELECT Categories.CategoryName, COUNT(Products.Name) AS ProductCount

FROM Categories

JOIN Products ON Products.CategoryID = Categories.CategoryID

GROUP BY CategoryName;
```

Result Grid  Filter Rows:

| CategoryName | ProductCount |
|---|---|
| Emergency_Medicine | 15 |
| Gynecology | 12 |
| Internal_Medicine | 20 |
| Pediatrics | 18 |
| Psychiatry | 10 |
| Surgery | 10 |

Result 88

**Q27) Find customers who have made purchases in multiple categories.**

```
SELECT Customers.Name AS CustomerName, COUNT(DISTINCT Products.CategoryID) AS CategoriesCount

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

JOIN Products ON Products.ProductID = OrderDetails.ProductID

GROUP BY Customers.Name

HAVING CategoriesCount > 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| CustomerName | CategoriesCount |
|---|---|
| Akash Verma | 2 |
| Amit Sharma | 2 |
| Anil Verma | 2 |
| Anita Rao | 2 |
| Anjali Mehta | 2 |
| Deepika Singh | 2 |
| Dhiru Kumar | 2 |
| Gaurav Gupta | 2 |
| Karan Thakur | 2 |

Result 17

**Q28) List the total sales value of each customer.**

```
SELECT Customers.Name AS CustomerName, SUM(OrderDetails.Quantity * Products.Price) AS TotalSales

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

JOIN Products ON Products.ProductID = OrderDetails.ProductID

GROUP BY CustomerName

ORDER BY TotalSales DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Conte

| CustomerName | TotalSales |
|---|---|
| Virendra Sehwag | 9080.00 |
| Ravi Kumar | 8362.90 |
| Vikram Mehta | 1965.75 |
| Kavita Desai | 1806.75 |
| Priya Singh | 1437.61 |
| Nikhil Chawla | 1385.00 |
| Anjali Mehta | 1250.00 |
| Priya Menon | 1040.00 |
| Sonia Patel | 1000.00 |

Result 18

**Q29) Find the product that has been ordered the most by quantity.**

```
SELECT Products.Name AS ProductName, SUM(OrderDetails.Quantity) AS TotalQuantity

FROM Products

JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

GROUP BY ProductName

ORDER BY TotalQuantity DESC

LIMIT 1;
```

Result Grid | Filter Rows:

| | ProductName | TotalQuantity |
|---|---|---|
| ▶ | Aspirin | 50 |

Result 91 ×

**Q30) Identify customers who have purchased a product that they later reviewed poorly (rating < 5).**

```
SELECT DISTINCT Customers.Name AS CustomerName, Products.Name AS ProductName, Reviews.Rating

FROM Customers

JOIN Reviews ON Reviews.CustomerID = Customers.CustomerID

JOIN Products ON Products.ProductID = Reviews.ProductID

JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

WHERE Reviews.Rating < 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| CustomerName | ProductName | Rating |
|---|---|---|
| Amit Sharma | Losartan Potassium | 2.5 |
| Vikram Mehta | Gabapentin | 1.0 |
| Anil Verma | Ergonomic Needle Holder | 4.0 |
| Virendra Sehwag | Naproxen | 3.0 |
| Ravi Reddy | Omeprazole | 2.0 |
| Kavita Bhatt | Epinephrine Auto-Injector | 4.0 |
| Suresh Kumar | Clonazepam | 3.5 |
| Nikhil Chawla | Prednisone 10mg for Inflammation | 4.5 |
| Rohan Das | Monthly Birth Control Pills Pack | 4.0 |

Result 20

**Q31) List the orders that have the highest total discount applied.**

```
SELECT Orders.OrderID, SUM(Discounts.DiscountAmount) AS Total_Discount

FROM Orders

JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

JOIN Discounts ON Discounts.ProductID = OrderDetails.ProductID

GROUP BY Orders.OrderID

ORDER BY Total_Discount DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| OrderID | Total_Discount |
|---|---|
| 203 | 125 |
| 204 | 110 |
| 211 | 105 |
| 202 | 105 |
| 234 | 100 |
| 230 | 100 |
| 217 | 95 |
| 229 | 90 |
| 221 | 75 |

Result 21

Output

**Q32) Find customers who have only placed one order.**

```
SELECT Customers.Name AS Customer_Name, COUNT(Orders.OrderID) AS Order_Count

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

GROUP BY Customer_Name

HAVING Order_Count = 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Customer_Name | Order_Count |
|---|---|
| Abhishek Singh | 1 |
| Ajay Khanna | 1 |
| Ajit Sinha | 1 |
| Akash Verma | 1 |
| Alka Gupta | 1 |
| Amit Bansal | 1 |
| Amit Desai | 1 |
| Amit Sharma | 1 |
| Anil Verma | 1 |

Result 22

**Q33) Get the average price of products in each category.**

```
SELECT Categories.CategoryName, AVG(Products.Price) AS Avg_Product_Price

FROM Products

JOIN Categories ON Categories.CategoryID = Products.CategoryID

GROUP BY CategoryName;
```

Result Grid | Filter Rows: | Export:

| CategoryName | Avg_Product_Price |
|---|---|
| Emergency_Medicine | 143.266667 |
| Gynecology | 26.416667 |
| Internal_Medicine | 26.239000 |
| Pediatrics | 20.393333 |
| Psychiatry | 24.900000 |
| Surgery | 153.800000 |

Result 95

**Q34) List the products that have been ordered but never reviewed.**

```
SELECT Products.Name AS ProductName, Reviews.Comment

FROM Products

JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

LEFT JOIN Reviews ON Reviews.ProductID = OrderDetails.ProductID

WHERE Reviews.ProductID IS NULL;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| ProductName | Comment |
|---|---|
| Lisinopril | NULL |
| Ibuprofen | NULL |
| Hydrochlorothiazide | NULL |
| Hemostat Clamp for Blood Vessel | NULL |
| Complete Suturing Kit | NULL |
| Fever Reducer Suspension | NULL |
| Children's Allergy Relief Tablets | NULL |
| Children's Allergy Relief Tablets | NULL |
| Infant Pain Relief Drops | NULL |

Result 24

**Q35) List all products with their categories that have a price higher than the average price in their category.**

```
SELECT Products.Name AS ProductName, Products.Price, Categories.CategoryName

FROM Products

JOIN Categories ON Categories.CategoryID = Products.CategoryID

WHERE Products.Price > (

        SELECT AVG(Price)

  FROM Products

  WHERE CategoryID = Products.CategoryID

);
```

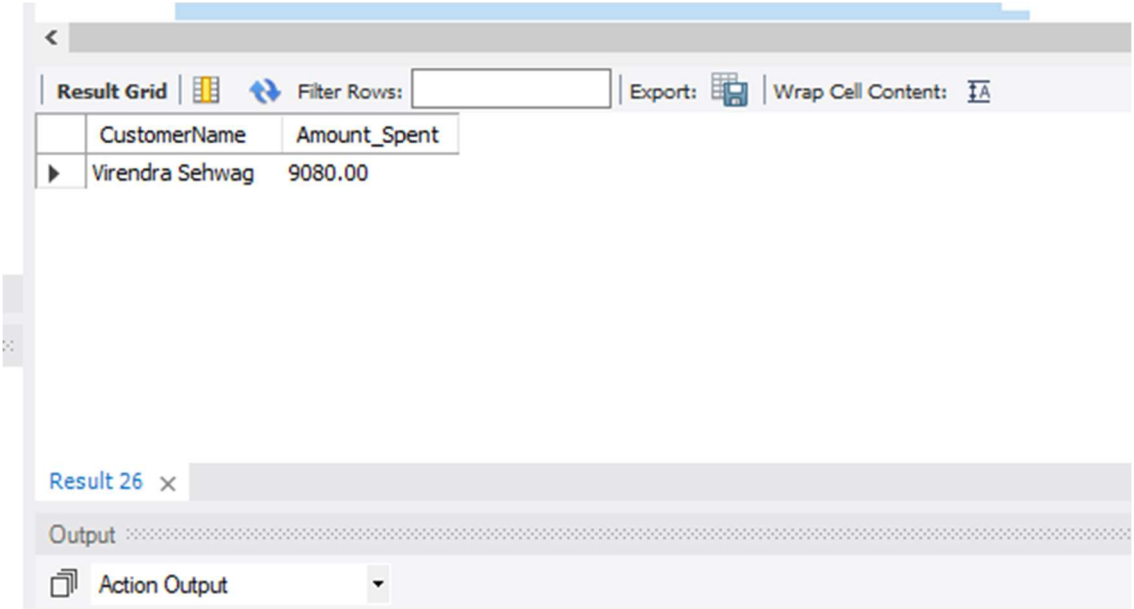
Result Grid | Filter Rows: | Export: | Wra

| ProductName | Price | CategoryName |
|---|---|---|
| Ibuprofen | 65.00 | Internal_Medicine |
| Hydrochlorothiazide | 61.00 | Internal_Medicine |
| LED Surgical Light | 1250.00 | Surgery |
| Pediatric Probiotic Powder | 66.00 | Pediatrics |
| Adrenaline Injection Kit | 70.00 | Emergency_Medicine |
| Defibrillator Unit | 1500.00 | Emergency_Medicine |
| Portable Oxygen Tank | 250.00 | Emergency_Medicine |

Result 97

**Q36) Find the customer who has spent the most money in total.**

```
SELECT Customers.Name AS CustomerName, SUM(OrderDetails.Quantity*Products.Price) AS Amount_Spent

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

JOIN Products ON Products.ProductID = OrderDetails.ProductID

GROUP BY CustomerName

ORDER BY Amount_Spent DESC

LIMIT 1;
```



**Q37) Find all products with a rating below the average rating across all products.**

```
SELECT Products.ProductID, Products.Name AS ProductName, Reviews.Rating

FROM Products

JOIN Reviews ON Reviews.ProductID = Products.ProductID

WHERE Reviews.Rating < (

                        SELECT AVG(Reviews.Rating)

                         FROM Reviews

                         );
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| ProductID | ProductName | Rating |
|---|---|---|
| 15 | Losartan Potassium | 2.5 |
| 5 | Amoxicillin | 5.5 |
| 12 | Metoprolol Succinate | 5.0 |
| 4 | Simvastatin | 6.0 |
| 9 | Gabapentin | 1.0 |
| 22 | Ergonomic Needle Holder | 4.0 |
| 77 | Sterile Gauze Pads | 6.5 |
| 13 | Naproxen | 3.0 |
| 73 | Burn Treatment Cream | 5.0 |

Result 27

**Q38) Get the total number of orders each customer has placed in each year.**

```
SELECT Customers.CustomerID, Customers.Name, COUNT(Orders.OrderID) AS OrderCount, YEAR(Orders.OrderDate) AS OrderYear

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

GROUP BY Customers.CustomerID, OrderYear

ORDER BY Customers.CustomerID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| CustomerID | Name | OrderCount | OrderYear |
|---|---|---|---|
| 501 | Rajesh Khanna | 1 | 2022 |
| 502 | Amit Sharma | 1 | 2022 |
| 503 | Neha Gupta | 1 | 2022 |
| 504 | Priya Singh | 3 | 2022 |
| 504 | Priya Singh | 1 | 2023 |
| 505 | Ravi Kumar | 1 | 2022 |
| 505 | Ravi Kumar | 2 | 2023 |
| 506 | Sonia Patel | 1 | 2022 |
| 506 | Sonia Patel | 1 | 2023 |

Result 28

Output

**Q39) Find the category with the lowest average product price.**

```
SELECT Categories.CategoryID, Categories.CategoryName, AVG(Products.Price) AS Avg_Price

FROM Categories

JOIN Products ON Products.CategoryID = Categories.CategoryID

GROUP BY Categories.CategoryID

ORDER BY Avg_Price ASC

LIMIT 1;
```

Result Grid | Filter Rows: | Export:

| CategoryID | CategoryName | Avg_Price |
|---|---|---|
| 103 | Pediatrics | 20.393333 |

Result 101

**Q40) List all products that have not been ordered in the year 2022.**

```
SELECT Products.Name AS ProductName, Orders.OrderDate

FROM Products

LEFT JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

LEFT JOIN Orders ON Orders.OrderID = OrderDetails.OrderID

WHERE Orders.OrderDate IS NULL

OR YEAR(Orders.OrderDate) <> 2022;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content

| ProductName | OrderDate |
|---|---|
| Aspirin | 2023-04-14 |
| Simvastatin | 2023-09-17 |
| Gabapentin | 2023-01-28 |
| Metoprolol Succinate | 2023-11-30 |
| Prednisone 10mg for Inflammation | 2023-06-22 |
| Diazepam | 2023-02-20 |
| Probiotic Gummies for Kids | 2023-03-12 |
| Children's Sleep Aid Liquid | 2023-01-16 |
| Lubricating Vaginal Moisturizer | 2023-02-20 |

Result 30

Output

**Q41) Identify the products that have the most reviews.**

```
SELECT Products.ProductID, Products.Name AS ProductName, COUNT(Reviews.ReviewID) AS ReviewCount

FROM Products

JOIN Reviews ON Reviews.ProductID = Products.ProductID

GROUP BY Products.ProductID

ORDER BY ReviewCount DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Con

| ProductID | ProductName | ReviewCount |
|---|---|---|
| 19 | Diazepam | 1 |
| 38 | Probiotic Gummies for Kids | 1 |
| 65 | Anti-Psychotic Medication | 1 |
| 1 | Aspirin | 1 |
| 20 | Tramadol | 1 |
| 39 | Antibiotic Suspension for Kids | 1 |
| 66 | Cognitive Behavioral Therapy Workbook | 1 |
| 2 | Metformin | 1 |
| 21 | Precision Surgical Scissors | 1 |
| 40 | Toddler's Vitamin D Supplement Drops | 1 |

Result 4

**Q42) List customers along with the number of products they have reviewed.**

```
SELECT Customers.CustomerID,
        Customers.Name,
    (
    SELECT COUNT(*)
    FROM Reviews
    WHERE Reviews.CustomerID = Customers.CustomerID
    ) AS ReviewCount
FROM
Customers;
```

943 SELECT Customers.CustomerID,

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| CustomerID | Name | ReviewCount |
|---|---|---|
| 501 | Rajesh Khanna | 1 |
| 502 | Amit Sharma | 2 |
| 503 | Neha Gupta | 1 |
| 504 | Priya Singh | 2 |
| 505 | Ravi Kumar | 1 |
| 506 | Sonia Patel | 1 |
| 507 | Vikram Mehta | 2 |
| 508 | Kavita Desai | 1 |
| 509 | Anil Verma | 1 |
| 510 | Pooja Rao | 1 |

Result 1

Output

**Q43) Get the details of the most expensive product in each category.**

```
SELECT p.ProductID, p.Name AS ProductName, p.Price, p.StockQuantity, p.CategoryID

FROM Products p

WHERE p.Price = (

                    SELECT MAX(p2.Price)

                   FROM Products p2

                   WHERE p2.CategoryID = p.CategoryID

                  );
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap

| ProductID | ProductName | Price | StockQuantity | CategoryID |
|---|---|---|---|---|
| 6 | Ibuprofen | 65.00 | 451 | 101 |
| 30 | LED Surgical Light | 1250.00 | 14 | 102 |
| 47 | Pediatric Probiotic Powder | 66.00 | 130 | 103 |
| 49 | Bioidentical Hormone Replacement Therapy | 48.00 | 55 | 104 |
| 67 | Therapy App Subscription Folder | 40.00 | 70 | 105 |
| 81 | Defibrillator Unit | 1500.00 | 20 | 106 |
| NULL | NULL | NULL | NULL | NULL |

Products 2 ×

**Q44) List the top 5 customers who have placed the most orders.**

```
SELECT Customers.Name, COUNT(Orders.OrderID) AS OrderCount

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

GROUP BY Customers.Name

ORDER BY OrderCount DESC

LIMIT 5;
```

Result Grid | Filter Rows:

| Name | OrderCount |
|---|---|
| Priya Singh | 4 |
| Ravi Kumar | 3 |
| Vikram Mehta | 3 |
| Kavita Desai | 3 |
| Sonia Patel | 2 |

Result 3

**Q45) Find the most recent order date for each customer.**

```
SELECT Customers.Name AS CustomerName, MAX(Orders.OrderDate) AS MostRecent_OrderDate

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

GROUP BY CustomerName;
```

Result Grid | Filter Rows: | Expo

| CustomerName | MostRecent_OrderDate |
|---|---|
| Abhishek Singh | 2023-12-30 |
| Ajay Khanna | 2022-02-09 |
| Ajit Sinha | 2023-06-14 |
| Akash Verma | 2022-07-23 |
| Alka Gupta | 2022-05-21 |
| Amit Bansal | 2022-06-02 |
| Amit Desai | 2023-04-06 |
| Amit Sharma | 2022-06-25 |
| Anil Verma | 2022-07-12 |
| Anita Rao | 2022-08-10 |

Result 7

**Q46) List products that have been ordered more than 10 times and have a price greater than Rs 50.**

```
SELECT Products.Name AS Prod_Name, SUM(OrderDetails.Quantity) AS Total_Qty, Products.Price

FROM Products

JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

GROUP BY Products.Name, Products.Price

HAVING Total_Qty > 10 AND Price > 50;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Cor

| Prod_Name | Total_Qty | Price |
|---|---|---|
| Complete Suturing Kit | 12 | 57.00 |
| Digestive Aid for Kids | 20 | 55.00 |
| Epinephrine Auto-Injector | 12 | 60.00 |
| Simvastatin | 30 | 51.00 |

Result 8

**Q47) List products that have a discount applied and are priced above Rs 30.**

```
SELECT Products.Name, Products.Price, Discounts.DiscountAmount

FROM Products

JOIN Discounts ON Discounts.ProductID = Products.ProductID

WHERE Products.Price > 30;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Name | Price | DiscountAmount |
|---|---|---|
| First Aid Kit | 45.00 | 40 |
| Prenatal Vitamins with DHA | 32.00 | 20 |
| Tramadol | 32.89 | 35 |
| Levothyroxine | 32.00 | 25 |
| Therapy App Subscription Folder | 40.00 | 10 |
| Kids' Cough Suppressant | 32.00 | 35 |
| Precision Surgical Scissors | 38.00 | 30 |
| LED Surgical Light | 1250.00 | 40 |
| Hydrochlorothiazide | 61.00 | 15 |
| Bioidentical Hormone Replacement Therapy | 48.00 | 25 |

Result 9

**Q48) Find customers who have placed orders across multiple years.**

```
SELECT Orders.CustomerID, Customers.Name

FROM Orders

JOIN Customers ON Customers.CustomerID = Orders.CustomerID

GROUP BY Orders.CustomerID

HAVING COUNT(DISTINCT YEAR(OrderDate)) > 1;
```

Result Grid | Filter Rows:

| CustomerID | Name |
|---|---|
| 504 | Priya Singh |
| 505 | Ravi Kumar |
| 506 | Sonia Patel |
| 507 | Vikram Mehta |
| 508 | Kavita Desai |

Result 7

**Q49) Find orders that were shipped on the same day they were placed.**

```
SELECT Orders.OrderID, Orders.OrderDate, Shipping.ShipDate

FROM Orders

JOIN Shipping ON Shipping.OrderID = Orders.OrderID

WHERE Shipping.ShipDate = Orders.OrderDate;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| OrderID | OrderDate | ShipDate |
|---|---|---|
| 201 | 2022-05-05 | 2022-05-05 |
| 202 | 2022-09-05 | 2022-09-05 |
| 203 | 2022-04-25 | 2022-04-25 |
| 204 | 2022-01-25 | 2022-01-25 |
| 205 | 2022-08-30 | 2022-08-30 |
| 206 | 2022-10-10 | 2022-10-10 |
| 207 | 2022-06-25 | 2022-06-25 |
| 208 | 2022-07-12 | 2022-07-12 |
| 209 | 2022-07-15 | 2022-07-15 |
| 210 | 2022-08-21 | 2022-08-21 |

Result 8

**Q50) List customers who have made purchases in more than one category.**

```
SELECT Customers.Name AS CustomerName, COUNT(DISTINCT Products.CategoryID) AS CategoryCount

FROM Customers

JOIN Orders ON Orders.CustomerID = Customers.CustomerID

JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID

JOIN Products ON Products.ProductID = OrderDetails.ProductID

GROUP BY CustomerName

HAVING CategoryCount > 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| CustomerName | CategoryCount |
|---|---|
| Akash Verma | 2 |
| Amit Sharma | 2 |
| Anil Verma | 2 |
| Anita Rao | 2 |
| Anjali Mehta | 2 |
| Deepika Singh | 2 |
| Dhiru Kumar | 2 |
| Gaurav Gupta | 2 |
| Karan Thakur | 2 |
| Kavita Bhatt | 2 |

Result 12

Output

**Q51) List all products along with the total amount spent on them.**

```
SELECT Products.Name AS Product_Name, SUM(OrderDetails.Quantity*Products.Price)

FROM Products

JOIN OrderDetails ON OrderDetails.ProductID = Products.ProductID

GROUP BY Products.Name;
```

Result Grid | Filter Rows: | Export:

| Product_Name | Amt_Spent |
|---|---|
| ADHD Medication | 560.00 |
| Adrenaline Injection Kit | 420.00 |
| Amoxicillin | 375.00 |
| Anti-Psychotic Medication | 150.00 |
| Antibiotic Suspension for Kids | 43.32 |
| Antidepressant Tablets | 750.00 |
| Antihistamine Cough Syrup | 56.45 |
| Antiseptic Wipes | 84.00 |
| Anxiolytic Medication | 264.00 |
| Aspirin | 524.50 |

Result 13

**Q52) Classify customers based on the total amount they have spent into three categories:**

**'Low Spender', 'Medium Spender', and 'High Spender'.**

```
SELECT Customers.Name AS Person_Name, SUM(OrderDetails.Quantity*Products.Price) AS Money_Spent,
        CASE
         WHEN SUM(OrderDetails.Quantity*Products.Price) > 2000 THEN "High_Spender"
        WHEN SUM(OrderDetails.Quantity*Products.Price) BETWEEN 500 AND 2000 THEN "Medium_Spender"
        ELSE "Low_Spender"
        END AS Spending_Category
FROM Customers
JOIN Orders ON Orders.CustomerID = Customers.CustomerID
JOIN OrderDetails ON OrderDetails.OrderID = Orders.OrderID
JOIN Products ON Products.ProductID = OrderDetails.ProductID
GROUP BY Customers.Name;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Person_Name | Money_Spent | Spending_Category |
|---|---|---|
| Akash Verma | 226.25 | Low_Spender |
| Amit Bansal | 121.95 | Low_Spender |
| Amit Sharma | 703.86 | Medium_Spender |
| Anil Verma | 192.45 | Low_Spender |
| Anita Rao | 173.00 | Low_Spender |
| Anjali Mehta | 1250.00 | Medium_Spender |
| Arun Bajaj | 216.00 | Low_Spender |
| Deepika Singh | 588.00 | Medium_Spender |
| Dhiru Kumar | 618.00 | Medium_Spender |
| Gaurav Gupta | 676.00 | Medium_Spender |

Result 14