bLUE dART DATA ANALYSIS

**Over – Viewing the Data**

SELECT \* FROM Order\_Details

SELECT \* FROM Orders

SELECT \* FROM Products

SELECT \* FROM Shippers

SELECT \* FROM Suppliers

SELECT \* FROM Categories

SELECT \* FROM Employee\_Details

**KPI’s Analysis**

1. **Total Revenue**

SELECT FORMAT(SUM(OD.QUANTITY \* P.PRICE),'C','EN-US') AS TOTAL\_REVENUE

FROM Order\_Details AS OD JOIN Products AS P ON OD.ProductID = P.ProductID

**Output:**

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1. **Total Orders**

SELECT COUNT(ORDERID) AS TOTAL\_ORDER FROM Order\_Details

**Output:**



1. **Total Quantity**

SELECT SUM(Quantity) AS TOTAL\_QUANTITY FROM Order\_Details

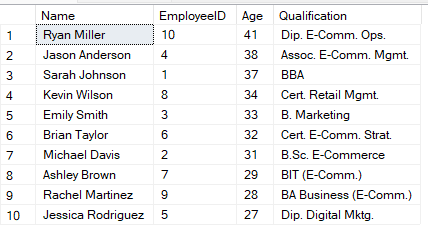
**Output:**



1. **Showcasing Employee Name, Employee ID, Qualification by their Age**

SELECT Name, EmployeeID, Age, Qualification FROM Employee\_Details ORDER BY AGE DESC

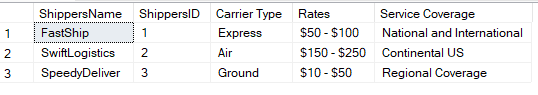
**Output:**



1. **Showcasing Shippers Name, Rate, Carrier Type, Service Coverage**

SELECT ShippersName, ShippersID, [Carrier Type], [Rates ], [Service Coverage] FROM Shippers

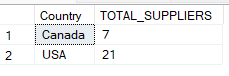
**Output:**



1. **Viewing Shippers Count by Country**

SELECT Country, COUNT(SUPPLIERID) AS TOTAL\_SUPPLIERS FROM Suppliers GROUP BY Country

**Output:**



1. **Revenue by Each Year**

SELECT DATEPART(YEAR,O.OrderDate) AS YEAR,

FORMAT(SUM(OD.QUANTITY \* P.PRICE),'C','EN-US') AS TOTAL\_REVENUE

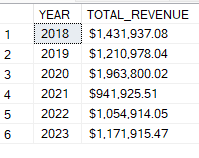
FROM Order\_Details AS OD JOIN Orders AS O ON OD.OrderID = O.OrderID

JOIN Products AS P ON OD.ProductID = P.ProductID

GROUP BY DATEPART(YEAR, O.OrderDate)

ORDER BY YEAR

**Output:**



1. **Revenue by Each Quarter**

SELECT SQ.YEAR,

FORMAT(SUM(CASE WHEN SQ.YEAR\_QUARTER = 1 THEN SQ.TOTAL\_REVENUE ELSE 0 END),'C','EN-US') AS Q1\_REVENUE,

FORMAT(SUM(CASE WHEN SQ.YEAR\_QUARTER = 2 THEN SQ.TOTAL\_REVENUE ELSE 0 END),'C','EN-US') AS Q2\_REVENUE,

FORMAT(SUM(CASE WHEN SQ.YEAR\_QUARTER = 3 THEN SQ.TOTAL\_REVENUE ELSE 0 END),'C','EN-US') AS Q3\_REVENUE,

FORMAT(SUM(CASE WHEN SQ.YEAR\_QUARTER = 4 THEN SQ.TOTAL\_REVENUE ELSE 0 END),'C','EN-US') AS Q4\_REVENUE

FROM(SELECT DATEPART(YEAR,O.OrderDate) AS YEAR, DATEPART(QUARTER, O.ORDERDATE) AS YEAR\_QUARTER,

SUM(OD.QUANTITY \* P.PRICE) AS TOTAL\_REVENUE

FROM Order\_Details AS OD JOIN Orders AS O ON OD.OrderID = O.OrderID

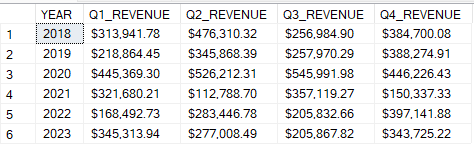
JOIN Products AS P ON OD.ProductID = P.ProductID

GROUP BY DATEPART(YEAR, O.OrderDate), DATEPART(QUARTER, O.OrderDate)) AS SQ

GROUP BY SQ.YEAR

ORDER BY SQ.YEAR

**Output:**



1. **Top 5 Products Sold by Quantity**

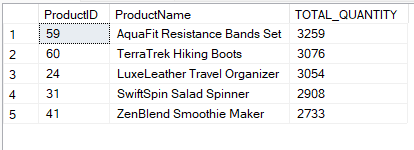
SELECT TOP 5 OD.ProductID, P.ProductName, SUM(OD.QUANTITY) AS TOTAL\_QUANTITY

FROM Order\_Details AS OD JOIN Products AS P ON OD.ProductID = P.ProductID

GROUP BY OD.ProductID, P.ProductName

ORDER BY TOTAL\_QUANTITY DESC

**Output:**



1. **Bottom 5 Product Sold by Quantity**

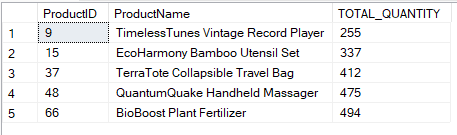
SELECT TOP 5 OD.ProductID, P.ProductName, SUM(OD.QUANTITY) AS TOTAL\_QUANTITY

FROM Order\_Details AS OD JOIN Products AS P ON OD.ProductID = P.ProductID

GROUP BY OD.ProductID, P.ProductName

ORDER BY TOTAL\_QUANTITY

**Output:**



1. **5 High Revenue Generated Products**

SELECT TOP 5 OD.ProductID, P.ProductName, FORMAT(SUM(OD.QUANTITY \* P.PRICE),'C','EN-US')

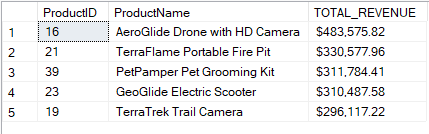
AS TOTAL\_REVENUE FROM Order\_Details AS OD

JOIN Products AS P ON OD.ProductID = P.ProductID

GROUP BY OD.ProductID, P.ProductName

ORDER BY SUM(OD.QUANTITY \* P.PRICE) DESC

**Output:**



1. **5 Low Revenue Generated Products**

SELECT TOP 5 OD.ProductID, P.ProductName, FORMAT(SUM(OD.QUANTITY \* P.PRICE),'C','EN-US')

AS TOTAL\_REVENUE FROM Order\_Details AS OD

JOIN Products AS P ON OD.ProductID = P.ProductID

GROUP BY OD.ProductID, P.ProductName

ORDER BY SUM(OD.QUANTITY \* P.PRICE)

**Output:**



1. **5 Most Ordered Products**

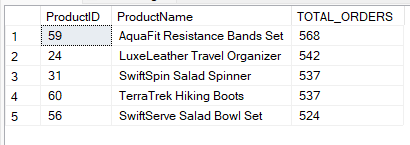
SELECT TOP 5 OD.ProductID, P.ProductName, COUNT(OD.ORDERID) AS TOTAL\_ORDERS

FROM Order\_Details AS OD JOIN Products AS P ON OD.ProductID = P.ProductID

GROUP BY OD.ProductID, P.ProductName

ORDER BY TOTAL\_ORDERS DESC

**Output:**



1. **5 Least Ordered Products**

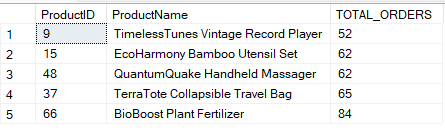
SELECT TOP 5 OD.ProductID, P.ProductName, COUNT(OD.ORDERID) AS TOTAL\_ORDERS

FROM Order\_Details AS OD JOIN Products AS P ON OD.ProductID = P.ProductID

GROUP BY OD.ProductID, P.ProductName

ORDER BY TOTAL\_ORDERS

**Output:**



1. **Sales By Category**

SELECT P.CategoryID, C.CategoryName, COUNT(OD.ORDERID) AS TOTAL\_ORDERS,

FORMAT(SUM(OD.QUANTITY \* P.PRICE),'C','EN-US') AS TOTAL\_REVENUE

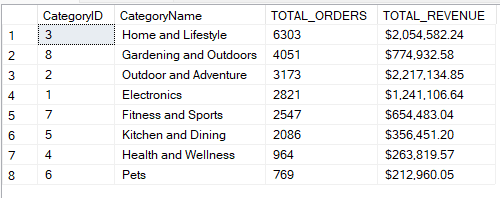
FROM Order\_Details AS OD JOIN Products AS P ON OD.ProductID = P.ProductID

JOIN Categories AS C ON P.CategoryID = C.CategoryID

GROUP BY P.CategoryID, C.CategoryName

ORDER BY TOTAL\_ORDERS DESC

**Output:**



1. **Most Used Payment Method**

SELECT O.[Payment Mode], COUNT(O.[Payment Mode]) AS NO\_OF\_PAYMENTS

FROM Order\_Details AS OD JOIN Orders AS O ON OD.OrderID = O.OrderID

GROUP BY O.[Payment Mode]

ORDER BY NO\_OF\_PAYMENTS DESC

**Output:**

