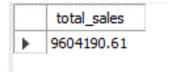# INSIGHTS OF CLASSICMODELS DATASETS

1. **Total Sales -**

   SELECT sum(quantityOrdered * priceEach) AS total_sales FROM orderdetails;

Output:- total sales of products in Rupees.

total_sales
▶ 9604190.61

2. **Country Wise Total Sales and Profit -**

   SELECT C.country,

   SUM(OD.quantityOrdered * OD.priceEach) AS TotalSales,

   SUM((OD.quantityOrdered * OD.priceEach) - (P.buyPrice * OD.quantityOrdered))
   As TotalProfit

   FROM orders O

   INNER JOIN customers C ON O.customerNumber = C.customerNumber

   INNER JOIN orderdetails OD ON O.orderNumber = OD.orderNumber

   INNER JOIN products P ON OD.productCode = P.productCode

   GROUP BY C.country;

Output:- The Output is Country wise Total sales and Country wise Total profit.

country	TotalSales	TotalProfit
France	1007374.02	413016.12
USA	3273280.05	1308815.59
Australia	562582.59	222207.18
Norway	270846.30	107649.34
Germany	196470.99	77505.70
Spain	1099389.09	440004.54
Sweden	187638.35	71915.92
Denmark	218994.92	85629.30
Singapore	263997.78	101782.55
Japan	167909.95	67848.06
Finland	295149.35	117239.33
UK	436947.44	172964.26
Ireland	49898.27	19588.29

3. Customers From Different Country -

SELECT customers.country, COUNT(customerName) as Number_Of_Customers

FROM customers

GROUP BY country

ORDER BY Number_Of_Customers DESC;

Output:- here we get customers from different countries.

country	Number_Of_Customers
USA	36
Germany	13
France	12
Spain	7
Australia	5
UK	5
Italy	4
New Zealand	4

4. Day Takes For Shipped The Product -

SELECT orderNumber,customerNumber,

　　DATEDIFF(shippedDate, orderDate) AS Product_shipped_within

FROM orders;

Result :- here we can see that in how many days the product is shipped.

orderNumber	customerNumber	Product_shipped_within
10100	363	4
10101	128	2
10102	181	4
10103	121	4
10104	141	1
10105	145	1
10106	278	4
10107	131	2
10108	385	5
10109	486	1

5. Total Sales Of Company By Years -

SELECT YEAR(paymentDate) AS year, SUM(amount) AS total_amount

FROM payments

GROUP BY YEAR(paymentDate)

ORDER BY year;

Result:- we have seen that the sales were increased from the year 2003 to 2004 (i.e. $3.32M - $4.31M) and after that sales were decreased from 2004 to 2005 (i.e. $4.31M - $1.29M).

	year	total_amount
▶	2003	3250217.70
	2004	4313328.25
	2005	1290293.28

6. Number Of Products -

SELECT COUNT(productName) as Total_Product FROM products;

Output:-There we got the total 110 different products in database.

	Total_Product
▶	110

7. Total Product Quantity In Stocks -

SELECT SUM(quantityInStock) AS Qunatity_In_Stocks

FROM products;

Output:- The sum of quantity in stock is 555K.

	Qunatity_In_Stocks
▶	555131

8. Monthly orders -

```
SELECT

    EXTRACT(YEAR FROM orderDate) AS year,

    EXTRACT(MONTH FROM orderDate) AS month,

    COUNT(*) AS Number_Of_Orders

FROM orders

GROUP BY

    EXTRACT(YEAR FROM orderDate),

    EXTRACT(MONTH FROM orderDate)

ORDER BY

    year, month;
```

Output:- we have each year and each month orders placed by customers.

year	month	Number_Of_Orders
2003	1	5
2003	2	3
2003	3	6
2003	4	7
2003	5	6
2003	6	7
2003	7	7
2003	8	5
2003	9	8
2003	10	18
2003	11	30

9. Sum Of Total Profit -

```
SELECT

    SUM(TotalProfit) AS SumTotalProfit

FROM

    ( SELECT

        C.country,
```

```
        SUM(( OD.quantityOrdered * OD.priceEach ) - ( P.buyPrice *
OD.quantityOrdered )) AS TotalProfit

    FROM

        orders O

    INNER JOIN

        customers C ON O.customerNumber = C.customerNumber

    INNER JOIN

        orderdetails OD ON O.orderNumber = OD.orderNumber

    INNER JOIN

        products P ON OD.productCode = P.productCode

    GROUP BY

        C.country ) AS Subquery;
```
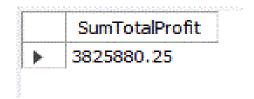
Output:- Sum of total profit is $3.82M.

SumTotalProfit
▶	3825880.25

10. Top 5 selling products -

```
SELECT

        SUM( orderdetails.quantityOrdered * orderdetails.priceEach ) as Total_sales,
products.productName

FROM

        orderdetails

INNER JOIN
```

products ON

        orderdetails.productCode = products.productCode

GROUP BY

        products.productName

ORDER BY

        Total_sales DESC;

Output:-Here we get Top 5 selling products.

Total_sales	productName
276839.98	1992 Ferrari 360 Spider red
190755.86	2001 Ferrari Enzo
190017.96	1952 Alpine Renault 1300
170686.00	2003 Harley-Davidson Eagle Drag Bike
161531.48	1968 Ford Mustang

11.Top 5 selling Country -

SELECT

    SUM(orderdetails.quantityOrdered * orderdetails.priceEach) AS Total_Sales, customers.country

FROM

    orderdetails

INNER JOIN

    orders ON

        orderdetails.orderNumber = orders.orderNumber

INNER JOIN

customers ON

orders.customerNumber = customers.customerNumber

GROUP BY

customers.country

ORDER BY

Total_Sales DESC

LIMIT 5;

Output:- Here we got Top 5 selling Country.

Total_Sales	country
3273280.05	USA
1099389.09	Spain
1007374.02	France
562582.59	Australia
476847.01	New Zealand

12. Total sales by product category -

SELECT products.productLine,

sum(orderdetails.quantityOrdered * orderdetails.priceEach) as

Total_Sales

FROM products

INNER JOIN orderdetails ON

products.productCode = orderdetails.productCode

GROUP BY

products.productLine

ORDER BY

Total_sales DESC;

Output:-Here we got total sales by product category.

productLine	Total_Sales
Classic Cars	3853922.49
Vintage Cars	1797559.63
Motorcycles	1121426.12
Trucks and Buses	1024113.57
Planes	954637.54
Ships	663998.34
Trains	188532.92

13. Total profit by product category -

SELECT products.productLine, SUM(orderdetails.quantityOrdered * (

orderdetails.priceEach - products.buyPrice)) AS Total_Profit

FROM products

INNER JOIN orderdetails ON

products.productCode = orderdetails.productCode

GROUP BY

products.productLine

ORDER BY

Total_Profit DESC;

Output:- Here we got total profit by product category.

productLine	Total_Profit
Classic Cars	1526212.20
Vintage Cars	737268.33
Motorcycles	469255.30
Trucks and Buses	400553.22
Planes	365960.71
Ships	261289.47
Trains	65341.02