SQL Project

By Saurabh Mulgaonkar
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Questions, Queries and Screenshots

1) What is the total number of purchases made from each supplier?

SELECT s.supplier as Supplier, COUNT(pu.id) as Purchases

FROM purchases pu

INNER JOIN suppliers s ON

s.id = pu.SupplierId

GROUP BY s.id;

Supplier	Purchases
ShockWave Tech	13
CDW	8
Acme Tech	11
CloudTail	13
Alpha Seller	25

2) What are the Product labels for each supplier?

SELECT s.supplier, p.ProductLabel

FROM suppliers s

INNER JOIN purchases pu

ON s.id = pu.SupplierId

INNER JOIN products p

ON p.id = pu.ProductId

GROUP BY s.id

ORDER BY s.id;

supplier	ProductLabel
ShockWave Tech	ELEC
CDW	CABL
Acme Tech	SFTW
CloudTail	HDWR
Alpha Seller	STON

3) What are the Total Numbers Received from purchases from each Supplier?

SELECT s.supplier, SUM(pu.NumberReceived) as Total_Received

FROM suppliers s

INNER JOIN purchases pu

ON s.id = pu.SupplierId

GROUP BY s.id

ORDER BY s.id;

supplier	Total_Received
ShockWave Tech	142
CDW	320
Acme Tech	452
CloudTail	566
Alpha Seller	575

4) How many customer orders are there in 2023 ?

SELECT COUNT(o.id) as No_of_orders

FROM orders o

WHERE YEAR(o.OrderDate) = 2023;

No_of_orders
47

5) How many orders are there for Laptops in 2023?

SELECT COUNT(o.id) as No_of_Laptop_Orders_2023

FROM orders o

INNER JOIN products p ON

p.id = o.ProductId

WHERE YEAR(o.OrderDate) = 2023 AND

p.ProductName LIKE '%Laptop';

No_of_Laptop_Orders_2023
5

6) What is the Total Inventory Shipped to Male Customers in 2023?

SELECT SUM(NumberShipped) as Total_Inventory_Shipped

FROM orders

WHERE YEAR(OrderDate) = 2023 AND

Title ='Mr.';

Total_Inventory_Shipped
162

7) What are the Top product labels (categories) by no. of orders?

SELECT p.ProductLabel, COUNT(o.id) as No_of_orders

FROM products p

INNER JOIN orders o ON

p.id = o.ProductId

GROUP BY p.ProductLabel

ORDER BY No_of_orders DESC;

ProductLabel	No_of_orders
STON	12
ELEC	10
SFTW	10
CABL	8
HDWR	7

8) Top 3 customers by Number of orders

SELECT CONCAT(Title,' ',First,' ',COALESCE(Middle,""),' ',Last) as Name,

COUNT(id) as No_of_orders

FROM orders

GROUP BY Name

ORDER BY No_of_orders DESC

LIMIT 3;

Name	No_of_orders
Mr. Adam E. Copeland	3
Mr. Bob Backland	2
Miss Jill Valentine	2

9) How many males or females have given orders?

```
-- https://learnsql.com/blog/group-by-case-when/
SELECT
       CASE
               WHEN o.Title = 'Mr.' THEN 'Male'
               WHEN o.Title ='Mrs.' THEN 'Female'
               WHEN o.Title ='Miss' THEN 'Female'
               ELSE o.Title
    END as Gender,
COUNT(o.Title) as Count
FROM orders o
GROUP BY Gender;
```
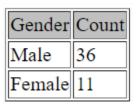
Gender	Count
Male	36
Female	11

10) How many cases where InventoryOnHand < Minimum requirement?

```
SELECT COUNT(id) as Cases
FROM products
WHERE InventoryOnHAND < MinimumRequired;
```

Cases
9

11) Top product names for each product label by shipped quantity.

SELECT ProductLabel, ProductName, SUM(InventoryShipped) as ShippedQuantity

FROM products

GROUP BY ProductLabel, ProductName

ORDER BY ProductLabel, ShippedQuantity DESC;

ProductLabel	ProductName	ShippedQuantity
CABL	USB Cable	295
CABL	Ethernet Cable	58
CABL	Laptop Charging Cable	50
ELEC	Samsung Phone	77
ELEC	iPhone	32
ELEC	HP Laptop	16
ELEC	LAVA Phone	12
ELEC	Dell Laptop	6
HDWR	5G Router	1060
HDWR	Set-top-box	201
HDWR	Dlink Router	100
SFTW	Adobe Reader	1050
SFTW	MS Office Standard	850
SFTW	MS Office 365	400
SFTW	Screen Recording Software Standard License	280
SFTW	Screen Recording Software Premium License	120
SFTW	PowerBI Service	100
SFTW	Anaconda Premium	100
SFTW	Tally Prime	80
SFTW	Zomato Gold	15
SFTW	Swiggy Premium	10
SFTW	BookMyTicket Premium	1
STON	Pen	451
STON	Pencil	265
STON	Erasor	180
STON	Sketchpen	150
STON	Scale	135
STON	Rounder	20

12) Top 5 Product Names and PartNumbers by Inventory Shipped.

SELECT p.ProductName, p.PartNumber, InventoryShipped

FROM products p

ORDER BY InventoryShipped DESC

LIMIT 5;

ProductName	PartNumber	InventoryShipped
Adobe Reader	123-XXXX	1050
MS Office Standard	947-127-XXXX	850
5G Router	J4	410
MS Office 365	547-291-XXXX	400
5G Router	J2	350

13) Names of customers who have purchased pens.

SELECT CONCAT(o.Title,' ',o.First,' ',COALESCE(o.Middle,''),' ',o.Last) as Name

FROM orders o

INNER JOIN products p ON

o.ProductId = p.id

WHERE p.ProductName LIKE 'Pen'

ORDER BY o.Title;

Name
Miss A. Kapoor
Mr. Max J. Friedman
Mr. A. Cole
Mrs. B. Bhatt

14) What are the total stationery items that were shipped?

SELECT ProductLabel, SUM(InventoryShipped) as Total

FROM products

WHERE ProductLabel ='STON';

ProductLabel	Total
STON	1201

15) Names of customers , product names and part numbers for customers who have ordered anything in December 2023.

SELECT CONCAT(o.Title,' ',o.First,' ',COALESCE(o.Middle,""),' ',o.Last) as Name,

p.ProductName, p.PartNumber

FROM orders o

INNER JOIN products p ON

o.ProductId = p.id

WHERE MONTH(OrderDate) = 12 AND

YEAR(OrderDate) = 2023

ORDER BY o.Title;

Name	ProductName	PartNumber
Miss A. Kapoor	Pen	B2 Ball
Mr. Red A. Rain	Dell Laptop	1024-7381

16) Name of Software, Dates on which software was purchased from supplier.

SELECT P.ProductName, pu.PurchaseDate

FROM purchases pu

INNER JOIN suppliers s

ON pu.SupplierId = s.id

INNER JOIN products p

ON p.id = pu.ProductId

WHERE ProductLabel ='SFTW';

ProductName	PurchaseDate
Screen Recording Software Premium License	2023-01-19
Screen Recording Software Standard License	2023-02-13
MS Office Standard	2023-03-21
MS Office 365	2023-04-11
PowerBI Service	2023-05-02
Tally Prime	2023-05-04
Anaconda Premium	2023-06-06
Adobe Reader	2023-06-10
Zomato Gold	2023-07-11
BookMyTicket Premium	2023-08-12
Swiggy Premium	2023-09-14