1. Question

fetch the list of product names which sales more than two times in between 2021 to 2023.

Query -

```
SELECT Product_name,
COUNT(Product_id) AS total_count,
Product_id,
Order_date
FROM orders
JOIN  products
ON(orders.Product_id=products.id)
GROUP BY Product_id
HAVING  COUNT(Product_id)>1  AND Order_date BETWEEN "2021-01-29" AND "2023-11-29"
ORDER BY  total_count DESC
LIMIT 5;
```

OUTPUT -

Result Grid | Filter Rows: | Export:

Product_name	total_count	Product_id	Order_date
Antenna	3	1053	2021-06-21
Monitor	3	1009	2021-07-05
Circuit2	2	1059	2021-08-13
Resistor	2	1031	2021-10-19
Battery	2	1043	2021-12-01

Result 2

2. Question

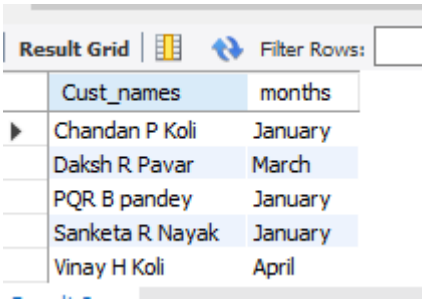
write an sql query to fetch the customers name who is received more than 500 inventory in january ,march and april

Query

```
SELECT CONCAT(First_Name,' ',Middle_Name,' ',Last_Name) AS Cust_names,
MONTHNAME(Order_date) AS months
FROM orders
GROUP BY Cust_names
HAVING  SUM(Number_shipped) >500

AND months IN("january","March","April");
```

OUTPUT



Result Grid | Filter Rows:

Cust_names	months
Chandan P Koli	January
Daksh R Pavar	March
PQR B pandey	January
Sanketa R Nayak	January
Vinay H Koli	April

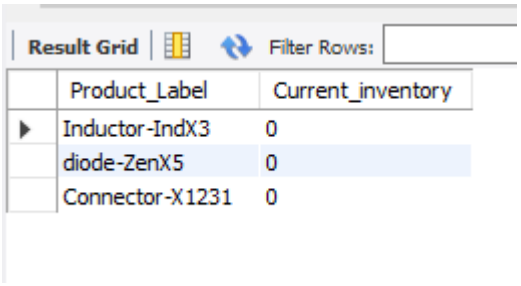
3. Question

write an sql query to retrieve the names of 5 product label which currently not available.

Query -

```
SELECT Product_Label,
SUM(Inventory_OnHand) AS Current_inventory
FROM products
GROUP BY Product_Label
HAVING Current_inventory <1
ORDER BY Current_inventory ASC
LIMIT 5 ;
```

OUTPUT -



Result Grid | Filter Rows:

Product_Label	Current_inventory
Inductor-IndX3	0
diode-ZenX5	0
Connector-X1231	0

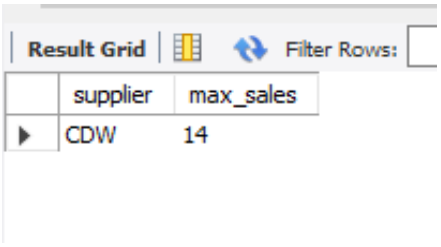
4. Question

write an sql query to retrieve suppliers name who sales inventory maximum times.

Query

```
SELECT supplier,
COUNT(supplier_id) AS max_sales
FROM purchases
JOIN suppliers
ON(suppliers.id = purchases.supplier_id)
GROUP BY supplier_id
ORDER BY max_sales DESC
LIMIT 1;
```

OUTPUT



Result Grid | Filter Rows:

supplier	max_sales
CDW	14

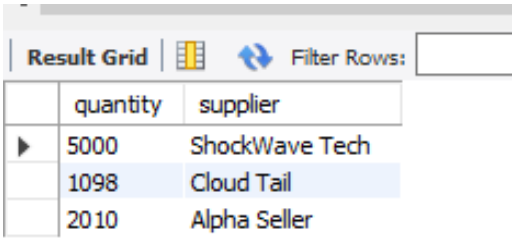
5. Question

write an sql query to al list of all suppliers who sales more than 1000 inventory.

Query-

```
SELECT Number_received As quantity ,
supplier
FROM purchases
INNER JOIN suppliers
ON purchases.supplier_id = suppliers.id
HAVING quantity>1000;
```

OUTPUT



Result Grid | Filter Rows:

quantity	supplier
5000	ShockWave Tech
1098	Cloud Tail
2010	Alpha Seller

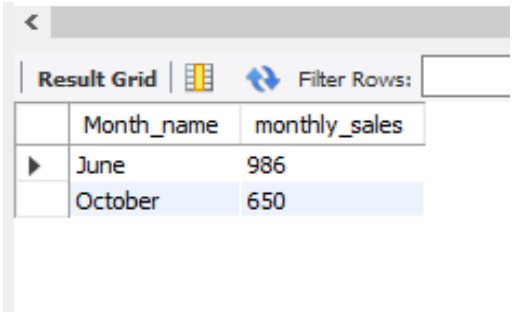
6. Question

write an sql query to find month name where inventory sales is between 500 to 1050.

Query-

```
SELECT MONTHNAME(Order_date) AS Month_name,
SUM(Number_shipped) AS monthly_sales
FROM orders
GROUP BY Month_name
HAVING monthly_sales BETWEEN 500 AND 1050 ;
```

OUTPUT-



Result Grid | Filter Rows:

Month_name	monthly_sales
June	986
October	650

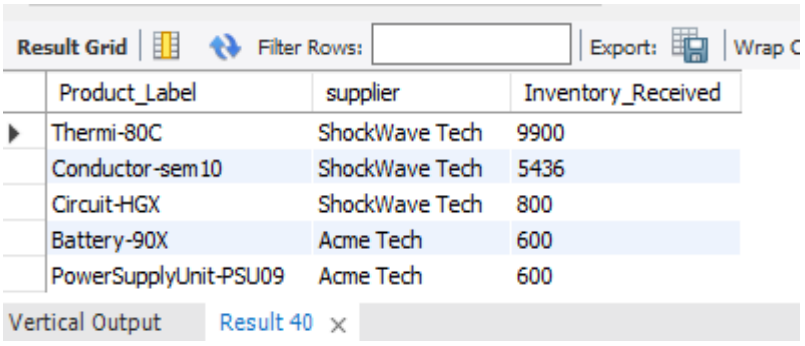
7. Question

write an sql query to list the name of supplier and Product_Label where suppliers supply a maximum inventory

Query-

```
SELECT Product_Label,
supplier,
Inventory_Received
FROM products
JOIN purchases
 ON products.id = purchases.product_id
JOIN suppliers
  ON suppliers.id = purchases.supplier_id
GROUP BY Product_Label
HAVING COUNT(Inventory_Received)
ORDER BY Inventory_Received DESC
LIMIT 5;
```

OUTPUT -



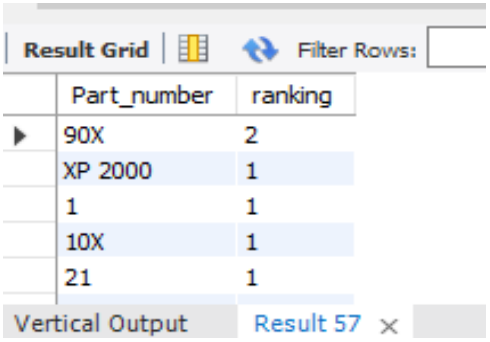
8. Question

write the sql query to find the ranking of a part numbers based on inventory received.

Query-

```
SELECT Part_number,
RANK() OVER(PARTITION BY part_number ORDER BY Inventory_Received) AS ranking
FROM products
ORDER BYranking  DESC ;
```

OUTPUT -



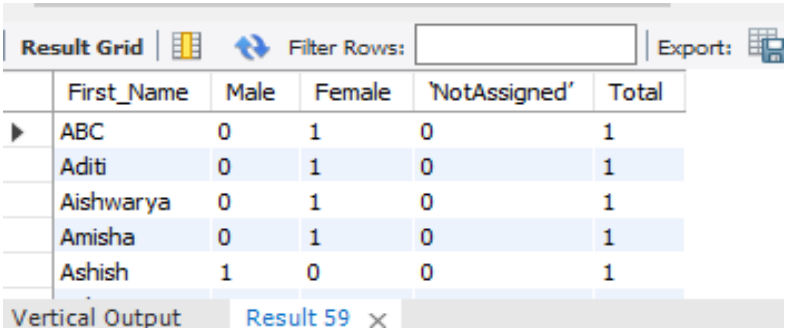
9. Question

write an sql query to defines male and females in customers.

Query

```
SELECT First_Name,
COUNT(CASE WHEN Title="mr" THEN 1 END ) AS Male,
COUNT(CASE WHEN Title="ms" THEN 1 END) AS Female,
COUNT(CASE WHEN (Title="" OR Title IS Null) THEN 1 END) AS 'NotAssigned',
COUNT(*) AS Total
FROM orders
GROUP BY First_Name;
```

OUTPUT-



Result Grid | Filter Rows: | Export:

First_Name	Male	Female	'NotAssigned'	Total
ABC	0	1	0	1
Aditi	0	1	0	1
Aishwarya	0	1	0	1
Amisha	0	1	0	1
Ashish	1	0	0	1

Vertical Output | Result 59

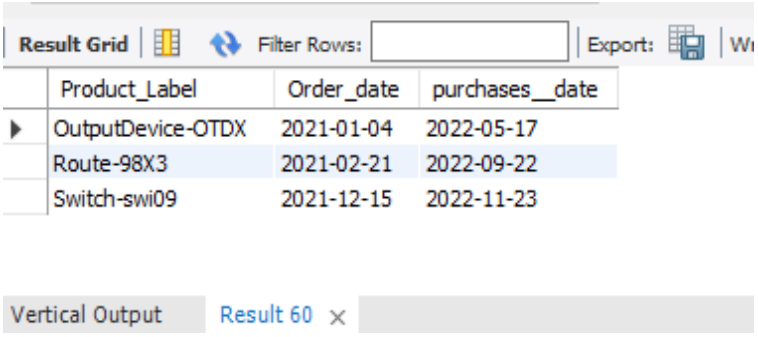
10. Questions

find the product label which orders in 2022 and purchase in 2023.

Query

```
SELECT Product_Label,
Order_date,
purchases__date
FROM products
JOIN purchases
  ON products.id = purchases.product_id
JOIN orders
  ON products.id = orders.Product_id
  GROUP BY Product_Label
  HAVING YEAR(Order_date)=2021 AND YEAR(purchases__date)=2022;
```

OUTPUT-



Result Grid | Filter Rows: | Export:

Product_Label	Order_date	purchases__date
OutputDevice-OTDX	2021-01-04	2022-05-17
Route-98X3	2021-02-21	2022-09-22
Switch-swi09	2021-12-15	2022-11-23

Vertical Output | Result 60

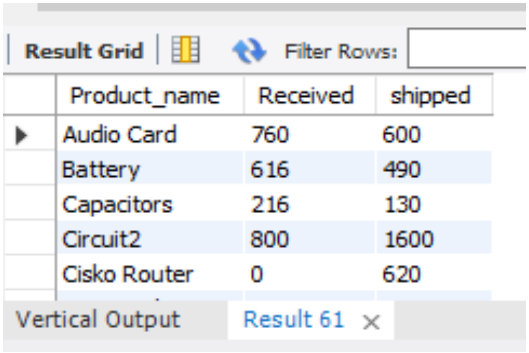
11. Question

write a query to find products received and shipped data.

Query

```
SELECT Product_name,
SUM(Number_received) AS Received,
SUM(Number_shipped) AS shipped
FROM products
JOIN purchases
  ON products.id = purchases.product_id
JOIN orders
  ON products.id = orders.Product_id
  GROUP BY Product_Label;
```

OUTPUT -



Product_name	Received	shipped
Audio Card	760	600
Battery	616	490
Capacitors	216	130
Circuit2	800	1600
Cisko Router	0	620

Vertical Output | Result 61

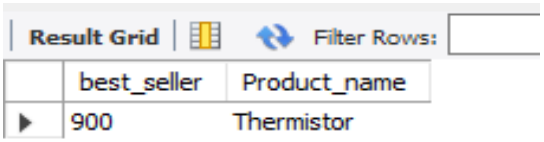
12. Question

write a query to find best seller product in january.

Query

```
SELECT sum(Number_shipped) as best_seller ,Product_name
FROM orders
JOIN products
ON (orders.Product_id=products.id)
GROUP BY product_name
HAVING MAX(Number_shipped)
ORDER  BY Number_shipped DESC
LIMIT 1;
```

OUTPUT



Result Grid | Filter Rows:

	best_seller	Product_name
▶	900	Thermistor

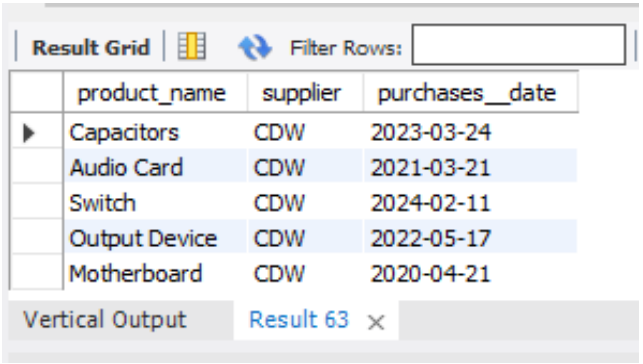
13. Question

write an query to find product name which received from 'CDW" supplier between jan to may.

Query-

```
SELECT product_name,
Supplier,
purchases__date
FROM products
JOIN purchases
 ON products.id = purchases.product_id
JOIN suppliers
 ON suppliers.id = purchases.supplier_id
 GROUP BY Product_Label
HAVING  supplier = 'CDW' AND
 MONTH(purchases__date) BETWEEN 1 AND 5
ORDER BY Inventory_Received DESC
LIMIT 5;
```

OUTPUT -



Result Grid | Filter Rows:

	product_name	supplier	purchases__date
▶	Capacitors	CDW	2023-03-24
	Audio Card	CDW	2021-03-21
	Switch	CDW	2024-02-11
	Output Device	CDW	2022-05-17
	Motherboard	CDW	2020-04-21

Vertical Output | Result 63 ×

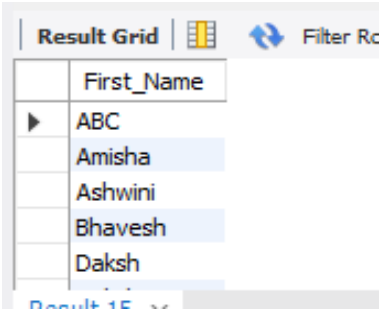
14. Question

write an sql query to find names whoes starting inventory is greater than 100

Query

```
SELECT First_Name
FROM orders
JOIN products
ON (orders.Product_id =products.id)
GROUP BY First_Name
HAVING sum(Starting_Inventory)<100;
```

OUTPUT-



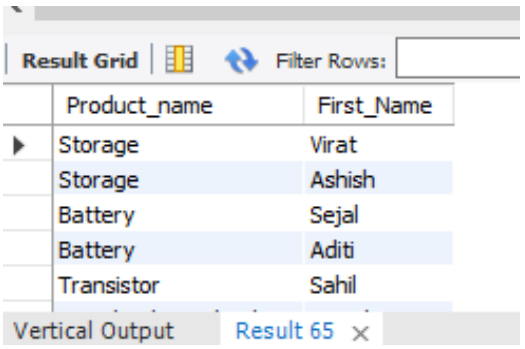
15. Question

write an sql query to find customer name and product name whos received inventory more than 1000.

Query-

```
SELECT Product_name,
First_Name
FROM orders
RIGHT JOIN products
ON products.id = orders.product_id
GROUP BY First_Name
HAVING sum(Inventory_Shipped)<1000
ORDER BY  Inventory_Shipped DESC;
```

OUTPUT-



16. Question

write an sql query to find product name which orders in 2023

Query

```
SELECT Order_date AS total,
Product_name
FROM orders
JOIN products
ON products.id = orders.product_id
GROUP BY Product_name
HAVING YEAR(Order_date)=2023;
```

OUTPUT