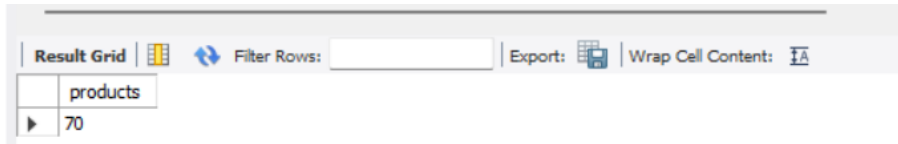


PROJECT ON MYSQL

Q1. Find the total number of products?

➔ SELECT count(*) AS products
FROM products;

Output:-

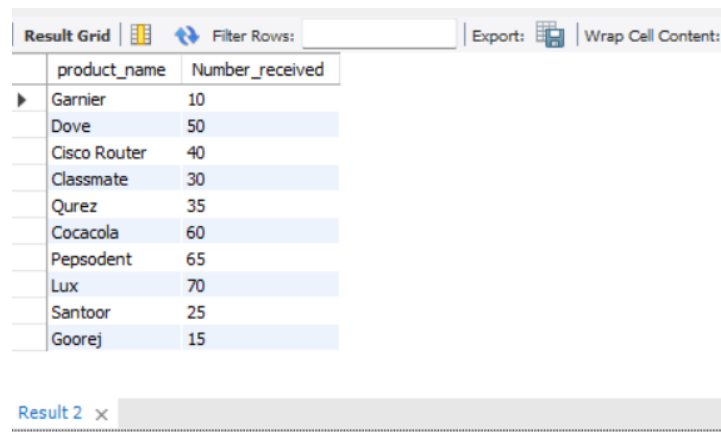


products
70

Q2. Find the list of products names and their number received.

➔ SELECT product_name, Number_received
FROM products, purchases
WHERE products.id=purchases.product_id
LIMIT 10;

Output:-



product_name	Number_received
Garnier	10
Dove	50
Cisco Router	40
Classmate	30
Qurez	35
Cocacola	60
Pepsodent	65
Lux	70
Santoor	25
Goorej	15

Result 2 x

Q3. Find product with inventory on hand between 50 to 100

➔ SELECT * FROM products
WHERE Inventory_OnHand BETWEEN 50 AND 100;

Output:-

	id	Product_name	Part_number	Product_Label	Starting_Inventory	Inventory_Received	Inventory_Shipped	Inventory_OnHand	Minimum_Required
▶	105	Qurez	127	Qurez-159	18	22	48	74	10
	106	Cocacola	128	Cocacola-456	6	9	46	85	16
	107	Pepsodent	129	Pepsodent-857	23	22	85	75	36
	108	Lux	131	Lux-497	89	20	63	77	45
	114	LG	137	LG-570	9	44	68	52	74
	116	Oneplus	139	Oneplus-22	9	65	41	88	55
	119	Titan	143	Titan-455	54	74	65	74	56
	125	Tupperware	149	Tupperware-78	52	66	41	55	8
	127	Tressme	152	Tressme-888	48	23	69	55	4
	130	BMW	155	BMW-970	89	74	62	85	33
	132	Bisleri	157	Bisleri-4875	45	65	2	52	8
	133	Lays	158	Lays-74258	15	56	4	65	4

Q4. Find names of suppliers starting with 'C'

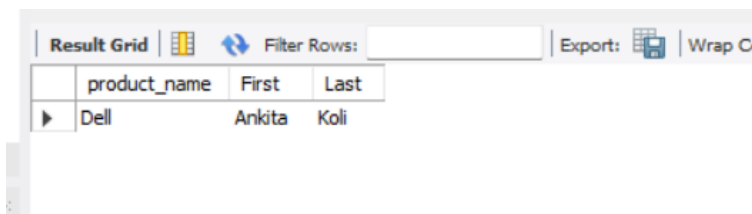
➔ SELECT * FROM suppliers
WHERE supplier_name LIKE 'C%';

Output:-

	id	Supplier_name
▶	2	CDW
	4	Cloud Tail
*	NULL	NULL

Q5. Find the name of customer who have ordered an hp laptop Dell

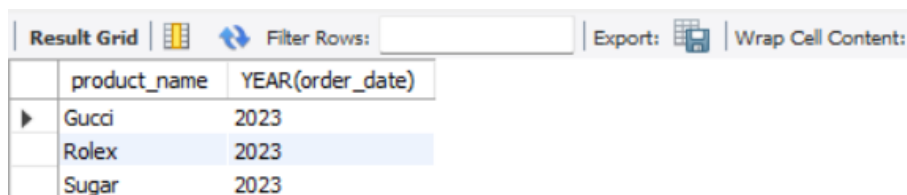
```
→ SELECT product_name,First,Last  
FROM products  
INNER JOIN orders  
ON products.id=orders.product_id  
WHERE product_name="Dell"  
GROUP BY product_name,First,Last;
```

Output:-

	product_name	First	Last
▶	Dell	Ankita	Koli

Q6. Find the total names of each product ordered in the year 2023

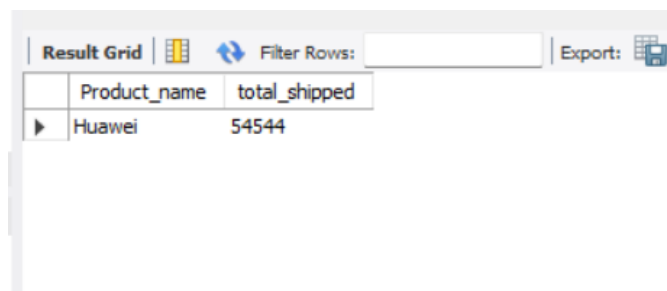
```
→ SELECT product_name, YEAR(order_date)  
FROM products  
LEFT JOIN orders  
ON products.id=orders.product_id  
WHERE YEAR(Order_date) = "2023";
```

Output:-

	product_name	YEAR(order_date)
▶	Gucci	2023
	Rolex	2023
	Sugar	2023

Q7. Find the products with the heighest total number of order shipped.

```
➔ SELECT Product_name, SUM(Number_shipped) AS total_shipped
FROM products
RIGHT JOIN orders
ON products.id=orders.Product_id
GROUP BY Product_name
ORDER BY total_shipped DESC
LIMIT 1;
```

Output:-

The screenshot shows a database query result grid. At the top, there is a toolbar with 'Result Grid', a grid icon, a 'Filter Rows' dropdown, and an 'Export' button. Below the toolbar is a table with two columns: 'Product_name' and 'total_shipped'. The first row of the table shows 'Huawei' with a 'total_shipped' value of 54544.

Product_name	total_shipped
Huawei	54544

Q8. Find the average order shipped for each product label

```
➔ SELECT Product_Label, AVG(Number_shipped) AS avg_shipped
FROM products
RIGHT JOIN orders
ON products.id=orders.Product_id
GROUP BY Product_Label
LIMIT 8;
```

Output:-

Result Grid		
Filter Rows:		Export: Wrap Cell Content: Fetc
	Product_Label	avg_shipped
▶	Garnier-895	65.0000
	Dove-2203	95.0000
	Cisco Router-568	62.0000
	Classmate-258	20.0000
	Qurez-159	44.0000
	Cocacola-456	55.0000
	Pepsodent-857	83.0000
	Lux-497	200.0000

Q9. Find the list of purchases made by the suppliers between “2023-11-01” to “2023-12-31”.

➔ SELECT * FROM purchases
 INNER JOIN suppliers
 ON purchases.supplier_id=suppliers.id
 WHERE purchases__date BETWEEN '2023-11-01' AND '2023-12-31';

Output:-

Result Grid							
Filter Rows:		Export:		Wrap Cell Content:		Fetc	
	id	supplier_id	product_id	Number_received	purchases__date	id	Supplier_name
▶	357	1	157	1632	2023-12-12	1	ShockWave Tech
	367	5	167	7120	2023-11-04	5	Alpha Seller

Q10. Find the latest purchases made by each supplier.

➔ SELECT Supplier_name, MAX(purchases__date) AS Latest_purchases
 FROM suppliers
 INNER JOIN purchases
 ON suppliers.id = purchases.supplier_id
 GROUP BY Supplier_name;

Output:-

345 -- Q11 Find the total number received for each supplier for

Supplier_name	Latest_purchases
ShockWave Tech	2023-12-12
CDW	2023-01-08
Acme Tech	2022-12-02
Cloud Tail	2022-08-23
Alpha Seller	2023-11-04

Q11. Find the total number received for each supplier for a given year.

```
➔ SELECT Supplier_name, SUM(Number_received) AS total_received
FROM suppliers
INNER JOIN purchases
ON suppliers.id = purchases.supplier_id
WHERE YEAR(purchases__date)=2020
GROUP BY Supplier_name;
```

Output:-

353 -- Q12 Find the supplier earliest purchases date made by the sup

Supplier_name	total_received
ShockWave Tech	546
Alpha Seller	1835

Q12. Find the supplier earliest purchases date made by the supplier

```
➔ SELECT Supplier_name, MIN(purchases__date) AS earliest_date
FROM suppliers
LEFT JOIN purchases
ON suppliers.id=purchases.supplier_id
GROUP BY Supplier_name
```

ORDER BY earliest_date DESC;

Output:-

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Supplier_name	earliest_date		
CDW	1999-12-25		
ShockWave Tech	1999-03-08		
Acme Tech	1999-02-13		
Alpha Seller	1998-02-19		
Cloud Tail	1998-02-11		

Q13 Find the customer names who have ordered products in the year “1999”

```
➔ SELECT CONCAT(First," ",Middle," ",Last) AS
full_name,product_name,order_date
FROM products
INNER JOIN orders
ON products.id=orders.product_id
WHERE YEAR (order_date) = "1999"
GROUP BY First,Middle,Last,product_name,order_date;
```

Output:-

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
full_name	product_name	order_date	
Akansha Nitin Kapoor	Vaseline	1999-04-25	
Abhishek Navin Arora	LG	1999-06-24	

Q14. Find the supplier who made first purchase in the year 2019

```
➔ SELECT Supplier_name, MIN(purchases__date) as first_purchases
From suppliers
LEFT JOIN purchases
ON suppliers.id=purchases.supplier_id
```

WHERE YEAR(purchases__date) = "2019"
 GROUP BY Supplier_name;

Output:-

Result Grid		
	Supplier_name	first_purchases
▶	Acme Tech	2019-08-22
	Cloud Tail	2019-12-03

Q15. Find the product with a minimum starting inventory less than 100.

➔ SELECT Product_name, MIN(Starting_Inventory) AS min_SI
 FROM products
 INNER JOIN purchases
 ON products.id=purchases.product_id
 GROUP BY Product_name
 HAVING MIN(Starting_Inventory)<100 ;

Output:-

Result Grid		
	Product_name	min_SI
	Dove	4
	Cisco Router	14
	Classmate	9
	Qurez	18
	Cocacola	6
	Pepsodent	23
	Lux	89
	Santoor	58
	Goorej	30
	Vaseline	8
	Lakme	6
	Apple	14
	LG	9
	Vivo	13
	Oneplus	9
	Oppo	56
	CloseUp	56

Q16. Find the total names of each product ordered in the year 2023

➔ SELECT product_name, YEAR(order_date)
 FROM products
 LEFT JOIN orders
 ON products.id=orders.product_id

WHERE YEAR(Order_date) = "2023";

Output:-

	product_name	year(order_date)
▶	Gucci	2023
	Rolex	2023
	Sugar	2023