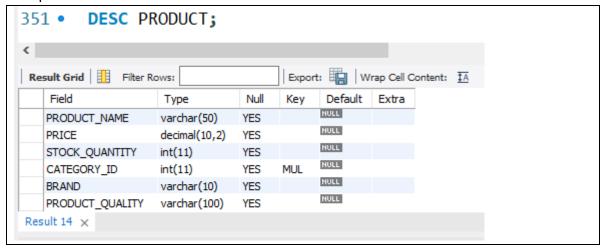
1. HOW CAN WE CHANGE EXISTING TABLE STRUCTURE(ALTER)

Query:

• ALTER TABLE PRODUCT
ADD PRODUCT_QUALITY VARCHAR(100);

Output:

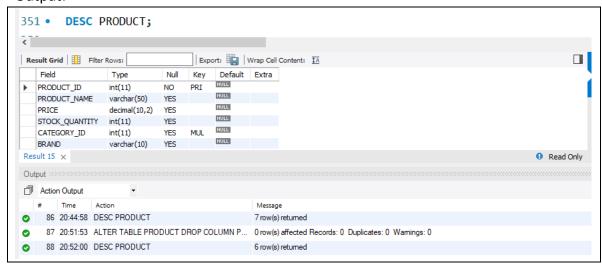


2. DROPPING A SAME COLUMN WHICH IS BEEN ALTER BEFORE.

Query:

• ALTER TABLE PRODUCT

DROP COLUMN PRODUCT_QUALITY;

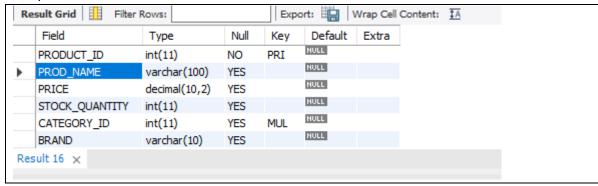


3. HOW TO RENAME THE EXISTING TABLE?

Query:

ALTER TABLE PRODUCT
 CHANGE COLUMN PRODUCT_NAME PROD_NAME VARCHAR(100);

Output:



4. FIND THE RATING GREATER THEN 3 AND NAME IN ASECNDING ORDER

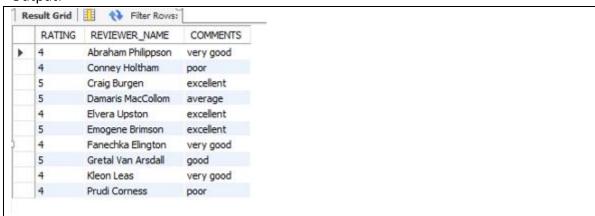
QUERY:

• SELECT RATING, REVIEWER_NAME, COMMENTS

FROM REVIEWS

WHERE RATING>3

ORDER BY REVIEWER_NAME ASC;



5. Fetch a details of customers who have purchased at least one product?

Query:

```
SELECT customer1.customer_id,customer1.first_name,COUNT(orders.orderID) as TOTAL_
FROM customer1
INNER JOIN orders ON customer1.customer_id = orders.customer_id
GROUP BY customer1.customer_id HAVING COUNT(orders.orderID)>=1;
```

Output:

	first_name	TOTAL_ORDERS
1	Chery	1
2	Joann	1
3	Jordan	1
4	Fred	1
5	Inger	1
6	Virginie	1
7	Kinnie	1
8	Siward	1
9	Lucy	1
10	Willette	1

6. Fetch the details of the customers who have name ending from 'A' and has purchase one item?

Query:

```
SELECT customer1.customer_id,customer1.first_name,COUNT(orders.orderID)as TOTAL
FROM customer1
INNER JOIN orders ON customer1.customer_id = orders.customer_id
GROUP BY customer1.customer_id
HAVING COUNT(orders.orderID) AND customer1.first_name LIKE "%A";
```

	customer_id	first_name	TOTAL
•	12	Philomena	1
	14	Johnna	1
	19	Gloriana	1
	21	Vinita	1
	24	Eliza	1
	25	Zilvia	1

7. Fetch the details of the customers who have name start from 'C'

Query:

```
SELECT customer1.customer_id,customer1.first_name,COUNT(orders.orderID)as TOTAL
FROM customer1
INNER JOIN orders ON customer1.customer_id = orders.customer_id
GROUP BY customer1.customer_id
HAVING COUNT(orders.orderID) AND customer1.first_name LIKE "C%";
```

Output:



8. Lists the number of orders sent by each ship

Query:

```
SELECT Ship.Recipient_Name, COUNT(Orders.OrderID) AS Num_Orders
FROM Orders
LEFT JOIN Ship ON Orders.customer_id = Ship.Shipping_id
GROUP BY Recipient_Name;
```

Output:



9. Lists of the product "ajit" or "ak" or "akash" who have registered (or)

Query:

```
• SELECT product.prod_name, COUNT(Orders.OrderID) AS NumberOfOrders

FROM (Orders
INNER JOIN product ON Orders.OrderID = product.product_id)
where prod_name = "ajit" or prod_name = "ak" or prod_name = "akash"
GROUP BY product.prod_name
HAVING COUNT(Orders.OrderID);
```

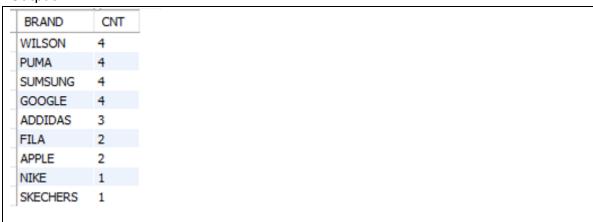
Output:

	prod_name	NumberOfOrders
•	AJIT	1
	AK	1
	AKASH	1

10. How much count of the brand in the product table (aggregate function – desc order)? Query:

```
• SELECT BRAND, COUNT(*) AS CNT
FROM PRODUCT
GROUP BY BRAND
ORDER BY COUNT(*) DESC;
```

Output:



11. How much count of the name which has "A" in the second position (aggregate function - asc order)?

Querv

```
• select recipient_name, count(*) as cnt
from ship
where recipient_name like "_a%"
group by recipient_name
having count(recipient_name)
order by count(recipient_name) asc;
```

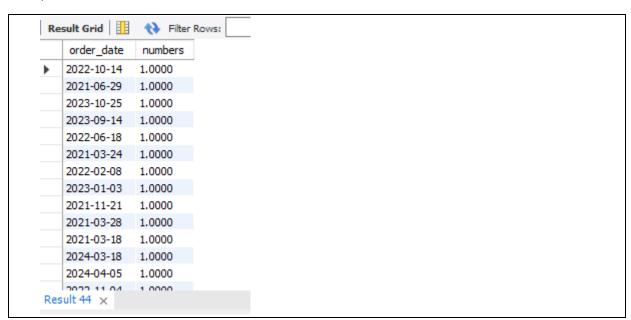
Output:

	recipient_name	cnt
þ.	Farra Nasi	1
	Valera Graffin	1
	Vanya Kelberer	1
	Warner Gatiss	1
	Kakalina Hartlebury	1
	Caron Kelby	1
	Kaine Swinford	1

12. We want average number of orders as per customer as per order date (sub-query)? Query:

```
select order_date, avg(num_order) as numbers from

(select customer_id, order_date, count(customer_id) as num_order
from orders
group by customer_id, order_date) sub
group by customer_id;
```



13. How to find first name and order date together?(inner join)

Query:

```
• SELECT Orders.OrderID, Customer1.first_Name, Orders.Order_Date
FROM Orders
INNER JOIN Customer1 ON Orders.Customer_ID=Customer1.Customer_ID;
```

Output:

	OrderID	first_Name	Order_Date
•	1	Chery	2022-10-14
	2	Joann	2021-06-29
	3	Jordan	2023-10-25
	4	Fred	2023-09-14
	5	Inger	2022-06-18
	6	Virginie	2021-03-24
	7	Kinnie	2022-02-08
	8	Siward	2023-01-03
	9	Lucy	2021-11-21
	10	Willette	2021-03-28
	11	Ricoriki	2021-03-18
	12	Philomena	2024-03-18
	13	Justine	2024-04-05
	1/4	lobona.	2022 11 04
Re	sult 45 ×		

14. I want to know the product (brand) and business I got?

Query:

```
    select brand, sum(price)as total
    from product
    group by brand
    order by price desc;
```

	brand	total
•	SKECHERS	98493.89
	PUMA	289425.28
	SUMSUNG	296982.46
	NIKE	31732.88
	GOOGLE	151765.87
	FILA	70187.51
	WILSON	233567.84
	APPLE	93906.04
	ADDIDAS	63082.80

15. How to selects all orders with customer and shipper information (joining 3 tables)

Query:

```
    SELECT ORDERS.ORDERID, CUSTOMER1.FIRST_NAME, SHIP.RECIPIENT_NAME
        FROM ORDERS
        INNER JOIN CUSTOMER1 ON ORDERS.CUSTOMER_ID = CUSTOMER1.CUSTOMER_ID
        JOIN SHIP ON ORDERS.CUSTOMER_ID = SHIP.SHIPPING_ID
        GROUP BY ORDERS.ORDERID, CUSTOMER1.FIRST_NAME, SHIP.RECIPIENT_NAME
        having orderid>15
        order by FIRST_NAME, ORDERID, RECIPIENT_NAME asc;
```

Output:

	ORDERID	FIRST_NAME	RECIPIENT_NAME
•	16	Cedric	Demetris Bondley
	24	Eliza	Fianna Monday
	19	Gloriana	Shara MacAleese
	20	Mendy	Farra Nasi
	17	Nicolai	Arda Crumpe
	18	Ricard	Clementia Kier
	22	Saunders	Bell Faro
	23	Tadio	Gladi Gosden
	21	Vinita	Sonnie Ryton
	25	Zilvia	Vanya Kelberer

16. FIND OUT IN WHICH MONTH BETWEEN MAR TO NOV IS THE ORDER TAKEN AND WHICH DAY BETWEEN 10 TO 31 IT WAS DELIVERED LIMIT AS PER 3.

QUERY:

```
• SELECT ORDERS.ORDER_DATE, SHIP.SHIP_DATE, SHIP.DELIVERY_DATE
FROM ORDERS

JOIN SHIP ON ORDERS.ORDERID = SHIP.SHIPPING_ID

WHERE ORDERS.ORDER_DATE BETWEEN "2020-03-13" AND "2022-11-04" OR

SHIP.DELIVERY_DATE NOT BETWEEN "2022-10-21" AND "2022-10-30"

GROUP BY ORDER_DATE, SHIP_DATE, DELIVERY_DATE

LIMIT 3;
```

OUTPUT:

		ORDER_DATE	SHIP_DATE	DELIVERY_DATE
	•	2020-03-13	2022-11-17	2022-04-23
		2020-03-31	2022-01-12	2022-03-26
		2020-05-20	2022-07-02	2022-01-26
ľ				

17. IN WHICH 4 MONTH ORDER IS PLACED?

QUERY:

```
• SELECT DATE_FORMAT(ORDER_DATE, "%M" "%Y") AS ODR_DATE,COUNT(ORDERID)AS ORDR_CNT
FROM ORDERS
GROUP BY ORDER_DATE
HAVING MONTH(ORDER_DATE) > 04
ORDER BY ORDER_DATE DESC
LIMIT 4 OFFSET 4;
```

OUTPUT:

	ODR_DATE	ORDR_CNT
•	July2023	1
	May2023	1
	November 2022	1
	October 2022	1

18. WHICH 5 PRODUCTS HAVE MAXIMUM AMOUNT OF DISCOUNT?

QUERY:

```
• SELECT BRAND, PROD_NAME, DISCOUNT_AMOUNT
FROM PRODUCT
JOIN DISCOUNTS ON PRODUCT.PRODUCT_ID = DISCOUNTS.DISCOUNT_ID
ORDER BY DISCOUNT_AMOUNT DESC
LIMIT 5 OFFSET 5;
```

OUTPUT:

		BRAND	PROD_NAME	DISCOUNT_AMOUNT
	•	ADDIDAS	TOM	840.40
		WILSON	DANIEL	827.33
		GOOGLE	ELESHA	779.04
		PUMA	CRISY	760.73
L		WILSON	RAMU	684.02

19. WHICH TOP 6 BRAND HAS MAX ORDER PLACED?

OUERY

```
• SELECT PRODUCT.BRAND, CATEGORIES. CATEGORY_NAME, SUM(ORDER_DETAILS.QUANTITY) AS QT
FROM CATEGORIES

JOIN PRODUCT ON CATEGORIES. CATEGORY_ID = PRODUCT. CATEGORY_ID

JOIN ORDER_DETAILS ON PRODUCT.PRODUCT_ID = ORDER_DETAILS.PRODUCT_ID

GROUP BY CATEGORIES. CATEGORY_NAME

ORDER BY QT DESC

LIMIT 6;
```

OUTPUT:

		BRAND	CATEGORY_NAME	QT
	•	SUMSUNG	lprando0	911.61
		APPLE	ldrabblek	904.62
		PUMA	btalksg	897.22
l		ADDIDAS	theapj	864.52
l		APPLE	fyanov4	834.84
l		PUMA	dabotsonf	832.02

20. WANT THE LIST OF 5 CUSTOMER NAME WHO ORDER IN MONTH OF MAR TO OCT?QUERY:

```
• SELECT CUSTOMER1.FIRST_NAME,ORDERS.ORDER_DATE
FROM ORDERS
RIGHT JOIN CUSTOMER1 ON ORDERS.CUSTOMER_ID = CUSTOMER1.CUSTOMER_ID
RIGHT JOIN SHIP ON ORDERS.ORDERID = SHIP.ORDERID
WHERE MONTH(ORDERS.ORDER_DATE) BETWEEN 3 AND 10
LIMIT 5 OFFSET 5;
```

OUTPUT:

	FIRST_NAME	ORDER_DATE
•	Virginie	2021-03-24
	Willette	2021-03-28
	Ricoriki	2021-03-18
	Philomena	2024-03-18
	Justine	2024-04-05

21. WHICH 4 PRODUCT HAS BEEN ORDER IN THE MONTH APR 2022 TO AUG 2022?

OUFRY

```
• SELECT DATE_FORMAT(ORDER_DATE, "%d"'-'"%M"'-'"%Y") AS OR_DATE, PROD_NAME, PRICE FROM ORDERS

JOIN ORDER_DETAILS ON ORDERS.ORDERID = ORDER_DETAILS.ORDERID

JOIN PRODUCT ON PRODUCT.PRODUCT_ID = ORDER_DETAILS.PRODUCT_ID

WHERE MONTH(ORDER_DATE) BETWEEN "04" AND "08"

ORDER BY PROD_NAME ASC

LIMIT 4;
```

OUTPUT:

	OR_DATE	PROD_NAME	PRICE
Þ	09-May-2023	AK	51854.42
	17-July-2023	ALICE	23051.67
	18-June-2022	JOSEPH	13771.50
	06-July-2021	MUKESH	98493.89