HARRIKISAN M

ASSIGNMENT-1

TASK-4

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1. Write an SQL query to find out which customers have not placed any orders.

SELECT * FROM CUSTOMERS WHERE NO_OF_ORDERS=0

customer_id	first_name	last_name	email	phone	address	no_of_orders
2	Jane Smith	F	janesmith@example.com	9123456789	456 Oak St	0
3	Alice Johnson	F	alicejohnson@gmail.com	9765432109	789 Pine St	0
10	Praveenkumar	M	praveenkumar8844@gmail.com	8610481045	abc street	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL

2. Write an SQL query to find the total number of products available for sale.

SELECT COUNT(*) AS NO_OF_PRODUCTS FROM PRODUCTS

NO_OF_PRODUCTS
7

3. Write an SQL query to calculate the total revenue generated by TechShop.

SELECT SUM(TOTAL_AMOUNT) AS TOTALREVENUE FROM ORDERS

TOTALREVENUE
366400

4. Write an SQL query to calculate the average quantity ordered for products in a specific category.

Allow users to input the category name as a parameter.

```
SELECT P.PRODUCT_NAME,AVG(OD.QUANTITY) FROM ORDERDETAILS OD
JOIN PRODUCTS P USING (PRODUCT_ID)
WHERE exists (SELECT * FROM PRODUCTS WHERE P.CATEGORY='mobile')
GROUP BY PRODUCT_ID
```

	PRODUCT_NAME	AVG(OD.QUANTITY)
▶	vivo t3	2.0000
	Samsung Galaxy A54	1.0000
	iPhone 15	1.0000
	OnePlus Nord 3	1.5000
	Realme Narzo 60	2.0000
	Redmi Note 12 Pro	1.0000

5. Write an SQL query to calculate the total revenue generated by a specific customer. Allow users

to input the customer ID as a parameter.

```
SELECT C.CUSTOMER_ID,CONCAT(C.FIRST_NAME,' ',C.LAST_NAME),SUM(O.TOTAL_AMOUNT)
FROM ORDERS O JOIN CUSTOMERS C
WHERE O.CUSTOMER_ID=1
```

	CUSTOMER_ID	CONCAT(C.FIRST_NAME,' ',C.LAST_NAME)	SUM(O.TOTAL_AMOUNT)
▶	1	harrikisan M	1090000

6. Write an SQL query to find the customers who have placed the most orders. List their names

and the number of orders they've placed.

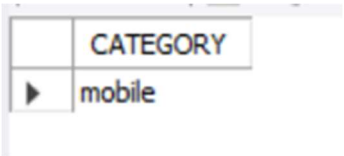
```
SELECT CONCAT(FIRST_NAME,' ',LAST_NAME),NO_OF_ORDERS FROM CUSTOMERS

WHERE NO_OF_ORDERS=(SELECT MAX(NO_OF_ORDERS) FROM CUSTOMERS);
```

	CONCAT(FIRST_NAME,' ',LAST_NAME)	NO_OF_ORDERS
▶	harrikisan M	2

7. Write an SQL query to find the most popular product category, which is the one with the highest

total quantity ordered across all orders.

```
SELECT P.CATEGORY FROM PRODUCTS P JOIN ORDERDETAILS OD WHERE
OD.QUANTITY=(SELECT MAX(QUANTITY) FROM ORDERDETAILS) GROUP BY QUANTITY
```



	CATEGORY
▶	mobile

8. Write an SQL query to find the customer who has spent the most money (highest total revenue)

on electronic gadgets. List their name and total spending.

```
select concat(c.first_name,' ',c.last_name),sum(o.total_amount) as total_amount
from customers c join orders o using(customer_id) group by customer_id
having total_amount=
(select max(total_amount) from (select sum(total_amount) as total_amount from orders group by customer_id) as map_spending)
```

	concat(c.first_name,' ',c.last_name)	total_amount
▶	harrikisan M	109000

9. Write an SQL query to calculate the average order value (total revenue divided by the number of

orders) for all customers.

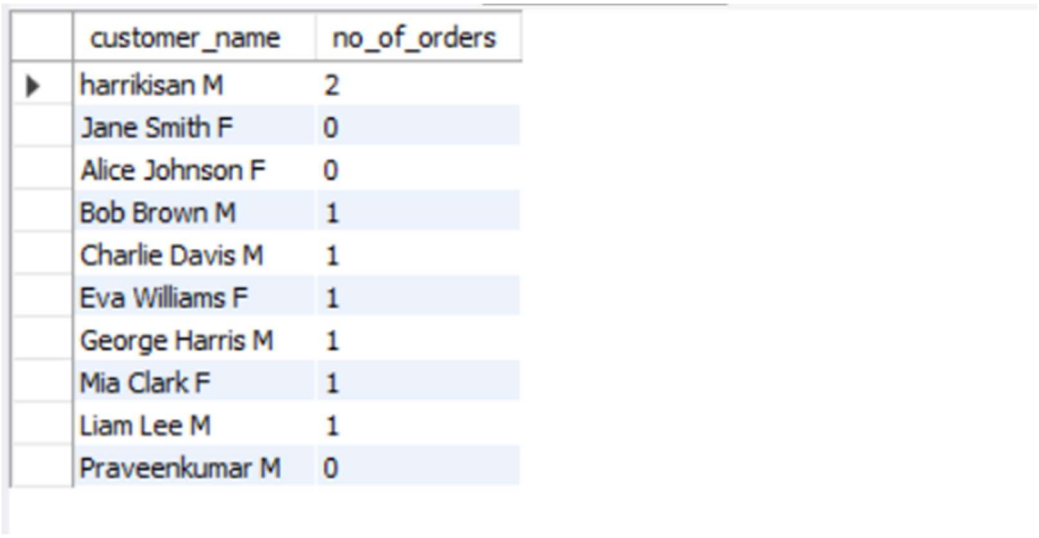
```
select concat(c.first_name,' ',c.last_name),avg(o.total_amount)/no_of_orders as average_value
from customers c join orders o using (customer_id) group by customer_id
```

	concat(c.first_name,' ',c.last_name)	average_value
▶	harrikisan M	27250
	Bob Brown M	37400
	Charlie Davis M	39600
	Eva Williams F	26400
	George Harris M	44000
	Mia Clark F	35200
	Liam Lee M	74800

10. Write an SQL query to find the total number of orders placed by each customer and list their

names along with the order count.

select concat(c.first_name,' ',c.last_name) as customer_name,no_of_orders from customers c



customer_name	no_of_orders
harrikisan M	2
Jane Smith F	0
Alice Johnson F	0
Bob Brown M	1
Charlie Davis M	1
Eva Williams F	1
George Harris M	1
Mia Clark F	1
Liam Lee M	1
Praveenkumar M	0