

HARRIKISAN M

ASSIGNMENT-1

TASK-3

1. Write an SQL query to retrieve a list of all orders along with customer information (e.g., customer name) for each order.

SELECT CUSTOMERS.*,ORDERS.* FROM CUSTOMERS JOIN ORDERS USING (CUSTOMER_ID)

	customer_id	first_name	last_name	email	phone	address	no_of_orders	order_id	customer_id	order_date	total_amount	status
▶	1	harrikisan	M	harrikisan5577@gmail.com	9345520672	abc street	2	1	1	2025-03-20 21:37:27	21000	shipped
	4	Bob Brown	M	bobbrown@example.com	9345678901	101 Birch St	1	4	4	2025-03-20 10:25:32	37400	pending
	5	Charlie Davis	M	charliedavis@example.com	9212345678	202 Cedar St	1	5	5	2025-03-20 10:25:32	39600	shipped
	6	Eva Williams	F	evawilliams@example.com	9456781234	303 Elm St	1	6	6	2025-03-20 10:25:32	26400	shipped
	7	George Harris	M	georgeharris@example.com	9108765432	404 Willow St	1	7	7	2025-03-20 10:25:32	44000	pending
	8	Mia Clark	F	miadark@example.com	9348123567	505 Redwood St	1	8	8	2025-03-20 10:25:32	35200	pending
	9	Liam Lee	M	liamlee@example.com	9123478901	606 Sequoia St	1	9	9	2025-03-20 10:25:32	74800	pending
	1	harrikisan	M	harrikisan5577@gmail.com	9345520672	abc street	2	10	1	2025-03-20 10:25:32	88000	pending

2. Write an SQL query to find the total revenue generated by each electronic gadget product. Include the product name and the total revenue.

SELECT P.PRODUCT_NAME,SUM(P.PRICE*O.QUANTITY) AS TOTALAMOUNT FROM PRODUCTS P JOIN ORDERDETAILS O USING (PRODUCT_ID) GROUP BY PRODUCT_ID

	PRODUCT_NAME	TOTALAMOUNT
▶	vivo t3	44000
	Samsung Galaxy A54	70400
	iPhone 15	88000
	OnePlus Nord 3	112200
	Realme Narzo 60	39600
	Redmi Note 12 Pro	26400

3. Write an SQL query to list all customers who have made at least one purchase. Include their names and contact information.

```
SELECT * FROM CUSTOMERS
WHERE NO_OF_ORDERS>0
```

	customer_id	first_name	last_name	email	phone	address	no_of_orders
▶	1	harrikisan	M	harrikisan5577@gmail.com	9345520672	abc street	2
	4	Bob Brown	M	bobbrown@example.com	9345678901	101 Birch St	1
	5	Charlie Davis	M	charliedavis@example.com	9212345678	202 Cedar St	1
	6	Eva Williams	F	evawilliams@example.com	9456781234	303 Elm St	1
	7	George Harris	M	georgeharris@example.com	9108765432	404 Willow St	1
	8	Mia Clark	F	miadark@example.com	9348123567	505 Redwood St	1
	9	Liam Lee	M	liamlee@example.com	9123478901	606 Sequoia St	1
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

4. Write an SQL query to find the most popular electronic gadget, which is the one with the highest total quantity ordered. Include the product name and the total quantity ordered.

```
SELECT P.PRODUCT_NAME,O.QUANTITY
FROM PRODUCTS P JOIN ORDERDETAILS O USING (PRODUCT_ID)
GROUP BY PRODUCT_ID
ORDER BY QUANTITY DESC LIMIT 1
```

	PRODUCT_NAME	QUANTITY
▶	vivo t3	2

5. Write an SQL query to retrieve a list of electronic gadgets along with their corresponding categories.

```
select product_name,category from products;
```

	product_name	category
▶	vivo t3	mobile
	Samsung Galaxy A54	mobile
	iPhone 15	mobile
	OnePlus Nord 3	mobile
	Realme Narzo 60	mobile
	Redmi Note 12 Pro	mobile
	redmi note 8 pro	mobile

6. Write an SQL query to calculate the average order value for each customer. Include the customer's name and their average order value.

```
SELECT CONCAT(C.FIRST_NAME,"",C.LAST_NAME),AVG(O.TOTAL_AMOUNT) 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
▶	harrikisanM	54500
	Bob harrikisanM	37400
	Charlie DavisM	39600
	Eva WilliamsF	26400
	George HarrisM	44000
	Mia ClarkF	35200
	Liam LeeM	74800

7. Write an SQL query to find the order with the highest total revenue. Include the order ID, customer information, and the total revenue.

```
SELECT C.*,O.ORDER_ID,MAX(O.TOTAL_AMOUNT) FROM CUSTOMERS C JOIN ORDERS O  
USING (CUSTOMER_ID)
```

	customer_id	first_name	last_name	email	phone	address	no_of_orders	ORDER_ID	MAX(O.TOTAL_AMOUNT)
▶	1	harrikisan	M	harrikisan5577@gmail.com	9345520672	abc street	2	1	88000

8. Write an SQL query to list electronic gadgets and the number of times each product has been ordered.

```
SELECT P.PRODUCT_NAME,COUNT(O.PRODUCT_ID) AS ORDER_COUNT FROM PRODUCTS P  
JOIN ORDERDETAILS O USING (PRODUCT_ID) GROUP BY PRODUCT_ID
```

	PRODUCT_NAME	ORDER_COUNT
▶	vivo t3	1
	Samsung Galaxy A54	2
	iPhone 15	1
	OnePlus Nord 3	2
	Realme Narzo 60	1
	Redmi Note 12 Pro	1

9. Write an SQL query to find customers who have purchased a specific electronic gadget product.

Allow users to input the product name as a parameter.

```
SELECT C.FIRST_NAME,C.LAST_NAME FROM CUSTOMERS C JOIN ORDERS O USING  
(CUSTOMER_ID)JOIN ORDERDETAILS OD USING (ORDER_ID)JOIN PRODUCTS P USING  
(PRODUCT_ID)WHERE P.PRODUCT_NAME='OnePlus Nord 3'
```

	FIRST_NAME	LAST_NAME
▶	Bob Brown	M
	Liam Lee	M

10. Write an SQL query to calculate the total revenue generated by all orders placed within a specific time period. Allow users to input the start and end dates as parameters.

```
select * from orders where order_date between '2025-03-20 10:25:32' and '2025-03-21  
10:25:32'
```

	order_id	customer_id	order_date	total_amount	status
▶	1	1	2025-03-20 21:37:27	2025-03-20 21:37:27	shipped
	4	4	2025-03-20 10:25:32	37400	pending
	5	5	2025-03-20 10:25:32	39600	shipped
	6	6	2025-03-20 10:25:32	26400	shipped
	7	7	2025-03-20 10:25:32	44000	pending
	8	8	2025-03-20 10:25:32	35200	pending
	9	9	2025-03-20 10:25:32	74800	pending
	10	1	2025-03-20 10:25:32	88000	pending
*	NULL	NULL	NULL	NULL	NULL