# **SQL PROJECT**

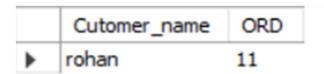
# **TOPIC: -** E-Commerce Data Base

Queries:-

#### Q1. which customer has maximum order?

```
select Cutomer_name,count(orders.CustomerID) AS ORD
from customers
join orders
on (customers.CustomerID = orders.CustomerID)
group by orders.CustomerID
order by ORD DESC
limit 1;
```

#### output:-



#### **Q2.** which customer has the lowest order?

```
select Cutomer_name,count(orders.CustomerID) AS ORD
from customers
join orders
on (customers.CustomerID = orders.CustomerID)
group by orders.CustomerID
order by ORD asc
limit 1;
output:-
Cutomer_name
ORD
```

# Q3. highest selling product?

```
select product_name,sum(order_detail.quantity) as product_sell

from product

join order_detail

on (product.product_id = order_detail.product_id)

group by product_name

order by product_sell desc

limit 1;

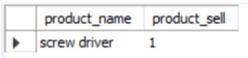
output

product_name product_sell

hoodiee 45
```

# Q4. lowest selling product?

```
select product_name,sum(order_detail.quantity) as product_sell
from product
join order_detail
on (product.product_id = order_detail.product_id)
group by product_name
order by product_sell asc
limit 1;
output
```



# **Q5.** revenue done by each product?

select product\_name,sum(product.price \* order\_detail.Quantity) as total\_sales from product join order\_detail

on (product.Product\_id = order\_detail.product\_id)

group by product\_name;

## output

	product_name	total_sales
•	apple iphone	3480000
	asus	60000
	fridge	125000
	hoodiee	54000
	screw driver	250
	sofa	608000
	doll	1650
	tissue paper	1300
	cookiees	480
	pencil	350
	pen	270
	samsung	700000

# **Q6.** No's of product sold by each category?

select category\_name,sum(order\_detail.quantity) as product\_sell

from categories

join product

on (product.Category\_id = categories.Category\_id)

join order\_detail

on (order\_detail.product\_id = product.Product\_id)

group by category\_name;

category_name	product_sell
Mobiles	52
laptops	28
electronics	16
fashion	60
MRO	11
Furnitures	47
Toys	35
Jansan	21
Breakroom	4
stationery	22
	Mobiles laptops electronics fashion MRO Furnitures Toys Jansan Breakroom

# Q7. which category has highest selling?

# Q8. revenue generated by each categories?

fashion

select category\_name,sum(product.price \* order\_detail.Quantity) as total\_sales
from categories
join product
on (product.Category\_id = categories.Category\_id)
join order\_detail
on (order\_detail.product\_id = product.Product\_id)
group by category\_name;

	category_name	total_sales
Þ	Mobiles	4768500
	laptops	1625000
	electronics	169800
	fashion	69600
	MRO	440
	Furnitures	753000
	Toys	120230
	Jansan	1780
	Breakroom	480
	stationery	1260

# **Q9.** profit generated on particular date?

```
select Order_date ,sum(product.price * order_detail.Quantity) as sales from orders
join order_detail
on (order_detail.order_id = orders.order_id)
join product
on (product.Product_id = order_detail.product_id)
where Order_date = "2024-03-11";
output
```

sales

# ▶ 2024-03-11 634980

Order\_date

# Q10. profit generated on between dates?

```
select Order_date ,sum(product.price * order_detail.Quantity) as sales from orders join order_detail on (order_detail.order_id = orders.order_id) join product on (product.Product_id = order_detail.product_id) where Order_date between "2024-02-10" and "2024-03-20" group by Order_date;
```

	Order_date	sales
•	2024-03-12	820000
	2024-03-13	150
	2024-03-03	360090
	2024-03-06	121300
	2024-03-10	136570
	2024-03-11	634980
	2024-03-04	152000
	2024-03-16	45000
	2024-03-18	219200
	2024-03-14	2500
	2024-03-01	12000
	2024-03-05	101500

# **Q11.** average rating of the product

select product\_name,avg(rating) as rating
from product
join reviews
on (product.product\_id = reviews.product\_id)
group by product\_name;

## output

	product_name	rating
١	apple iphone	3.8000
	asus	3.0000
	fridge	4.5000
	screw driver	4.0000
	cookiees	3.0000
	pen	4.0000
	hoodiee	5.0000
	cupbourd	4.0000
	one plus	3.0000
	Remote car	4.0000
	samsung	5.0000
	dell	4.0000

## Q12. which product has the lowest rating

select Product\_name,avg(reviews.Rating) as Rating
from product
join reviews
on (product.Product\_id = reviews.Product\_id)
group by Product\_name
order by Rating asc
limit 1;
output

	Product_name	Rating
•	asus	3.0000

# **Q13.** no of product in each category

select category\_name,count(product.Category\_id)

from categories

join product

on (categories.Category\_id = product.Category\_id)

group by category\_name;

## output

	category_name	count(product.Category_id)
•	Mobiles	6
	laptops	4
	electronics	4
	fashion	4
	MRO	3
	Furnitures	3
	Toys	5
	Jansan	2
	Breakroom	1
	stationery	4

## **Q14.** revenue done by each product

select product\_name,sum(product.price \* order\_detail.Quantity) as total\_sales

from product

join order\_detail

on (product\_roduct\_id = order\_detail.product\_id)

group by product\_name;

	product_name	total_sales
•	apple iphone	3480000
	asus	60000
	fridge	125000
	hoodiee	54000
	screw driver	250
	sofa	608000
	doll	1650
	tissue paper	1300
	cookiees	480
	pencil	350
	pen	270
	samsung	700000

## **Q15.** top 5 product which are giving highest revenue

select product\_name,sum(product.price \* order\_detail.Quantity) as total\_sales from product

join order\_detail

on (product.Product\_id = order\_detail.product\_id)

group by product\_name

order by total sales desc

limit 5;

output:-

	product_name	total_sales
١	apple iphone	3480000
	dell	810000
	samsung	700000
	sofa	608000
	acer	455000

# Q16. top 5 product which are giving lowest revenue

select product\_name,sum(product.price \* order\_detail.Quantity) as total\_sales

from product

join order\_detail

on (product\_roduct\_id = order\_detail.product\_id)

group by product\_name

order by total\_sales asc

limit 5;

## output:-

	product_name	total_sales
•	screw	90
	sockets	100
	ball	180
	notebooks	180
	screw driver	250

### Q17. which customer has 2nd highest order

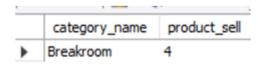
select Cutomer\_name, count(orders.Order\_id) as no\_of\_order
from customers
join orders
on (customers.CustomerID = orders.CustomerID)
group by Cutomer\_name
order by no\_of\_order desc
limit 1 offset 1;

#### output



# Q18. which category has lowest sales

select category\_name,sum(order\_detail.quantity) as product\_sell from categories
join product
on (product.Category\_id = categories.Category\_id)
join order\_detail
on (order\_detail.product\_id = product.Product\_id)
group by category\_name
order by product\_sell asc
limit 1;



```
Q19. which categories generates maximum profit?
```

select category\_name,sum(product.price \* order\_detail.Quantity) as total\_sales

from categories

join product

on (product.Category\_id = categories.Category\_id)

join order\_detail

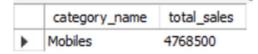
on (order\_detail.product\_id = product.Product\_id)

group by category\_name

order by total\_sales desc

limit 1;

#### output



# **Q20.** which categories generates lowest revenue?

select category\_name,sum(product.price \* order\_detail.Quantity) as total\_sales

from categories

join product

on (product.Category\_id = categories.Category\_id)

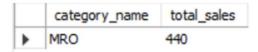
join order\_detail

on (order detail.product id = product.Product id)

group by category\_name

order by total\_sales asc

limit 1;



**Q21.** how much order has been been placed on particular dates?

select count(Order\_id) as total\_order

from orders

where Order\_date between "2024-02-11" and "2024-03-04";

output

total\_order

12

Q22. Show the rating of all the products and create view?

create view rating\_view as

select Product\_name, avg(Rating) as rating

from product

left join reviews

on (product.Product id = reviews.Product id )

group by Product\_name

union

select Product\_name, avg(Rating) as rating

from product

right join reviews

on (product\_roduct\_id = reviews.Product\_id )

group by Product\_name

order by rating desc;

	Product_name	rating
•	samsung	5.0000
	ac	5.0000
	hoodiee	5.0000
	sanitizer	5.0000
	microwave	5.0000
	doll	5.0000
	fridge	4.5000
	sockets	4.0000
	cupbourd	4.0000
	screw driver	4.0000
	dell	4.0000
	Remote car	4.0000