

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:-

	Cutomer_name	ORD
▶	rohan	11

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
▶	priyanka	3

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

	product_name	product_sell
▶	screw driver	1

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;

```

output

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

Q7. which category has highest selling ?

```

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 desc
limit 1;

```

output

	category_name	product_sell
►	fashion	60

Q8. revenue generated by each categories?

```

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;

```

output

	category_name	total_sales
►	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

	Order_date	sales
▶	2024-03-11	634980

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;

```

output

	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
▶	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.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

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
▶	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.Product_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 Customer_name, count(orders.Order_id) as no_of_order
from customers
join orders
on (customers.CustomerID = orders.CustomerID)
group by Customer_name
order by no_of_order desc
limit 1 offset 1;
```

output

	Customer_name	no_of_order
▶	rohit	7

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;
```

output

	category_name	product_sell
▶	Breakroom	4

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

	category_name	total_sales
▶	Mobiles	4768500

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;
```

output

	category_name	total_sales
▶	MRO	440

Q21. how much order has 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.Product_id = reviews.Product_id )
```

```
group by Product_name
```

```
order by rating desc;
```

output

	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