

-- Q1. What is the total revenue generated by male vs female customer?

```
select
    gender,
    sum(purchase_amount) as total_revenue
from customer
group by gender;
```

gender text	total_revenue numeric
Female	75191
Male	157890

-- Q2 Which customers used a discount but still more than average purchase amount?

```
select
    customer_id,
    purchase_amount
from customer
where discount_applied = 'Yes'
    and purchase_amount >= (
        select avg(purchase_amount)
        from customer
    )
order by purchase_amount
```

	customer_id bigint	purchase_amount bigint
1	96	100
2	616	100
3	582	100
4	1592	100
5	194	100
6	519	100
7	862	100
8	770	100
9	244	100
10	1480	100
11	249	100
12	1413	100
13	205	100
Total rows: 839 of 839		Query complete 00

-- Q3. Which are the top 5 products with the highest average review rating

```
select
    item_purchased,
    ROUND(AVG(review_rating::numeric),2) as avg_product_rating
from customer
group by item_purchased
order by avg_product_rating desc
```

limit 5

item_purchased text	agv_product_rating numeric
Gloves	3.86
Sandals	3.84
Boots	3.82
Hat	3.80
Skirt	3.78

```
-- Q4. Compare the average Purchase Amount between Standart and Express Shipping
select
    shipping_type,
    round(avg(purchase_amount), 2) avg_purchase
from customer
where shipping_type in ('Standard', 'Express')
group by shipping_type
```

shipping_type text	avg_purchase numeric
Standard	58.46
Express	60.48

```
-- Q5. Subscribed customer spend more? compare average spend and total revenue
-- between subscriber and none-subscribers.
```

```
select
    subscription_status,
    count(*) as total_customer,
    round(avg(purchase_amount), 2) as avg_spend,
    round(sum(purchase_amount), 2) as total_revenue
from customer
group by subscription_status
order by total_revenue, avg_spend desc
```

subscription_status text	total_customer bigint	avg_spend numeric	total_revenue numeric
Yes	1053	59.49	62645.00
No	2847	59.87	170436.00

```
-- Q6. Which 5 products have the highest percentage of purchase with discount applied?
select
    item_purchased,
    100 * sum(case when discount_applied = 'Yes' then 1 else 0 end) / count(*) as discount_percentage
from customer
group by item_purchased
order by discount_percentage desc
```

limit 5

	item_purchased text	discount_percentage bigint
1	Hat	50
2	Sneakers	49
3	Coat	49
4	Sweater	48
5	Pants	47

-- Q7. Segment customers into New, Returing, and loyal based on thire total  
--number of previous purchased, and show the count of each segment.  
-- Using CTE

```
with customer_type as (  
    select  
        customer_id, previous_purchases,  
        case  
            when previous_purchases = 1 then 'New'  
            when previous_purchases between 2 and 10 then 'Returning'  
            else 'Loyal'  
        end as customer_segment  
    from customer  
)  
  
select  
    customer_segment,  
    count(*) as number_customer,  
    round(100 * count(*) / sum(count(*)) over (),2) as customer_percentage  
from customer_type  
group by customer_segment  
order by number_customer desc
```

customer_segment text	number_customer bigint	customer_percentage numeric
Loyal	3116	79.90
Returning	701	17.97
New	83	2.13

-- Q8. What are the top 3 most purchase products within each category

```
with item_counts as (  
    select  
        category,
```

```

        item_purchased,
        count(customer_id) as total_order,
        row_number() over (partition by category order by count(customer_id) desc) as item_rank
    from customer
    group by category, item_purchased
)

```

```

select
    item_rank,
    category,
    item_purchased,
    total_order
from item_counts
where item_rank <= 3

```

item_rank bigint	category text	item_purchased text	total_order bigint
1	Accessories	Jewelry	171
2	Accessories	Sunglasses	161
3	Accessories	Belt	161
1	Clothing	Blouse	171
2	Clothing	Pants	171
3	Clothing	Shirt	169
1	Footwear	Sandals	160
2	Footwear	Shoes	150
3	Footwear	Sneakers	145
1	Outerwear	Jacket	163
2	Outerwear	Coat	161

-- Q9. Are customer who are repeat buyer (more than 5 previous purchases) also likely to subscribe?

```

select
    subscription_status,
    count(customer_id) as repeat_buyer
from customer
where previous_purchases > 5
group by subscription_status

```

subscription_status text	repeat_buyer bigint
No	2518
Yes	958

--Q 10. What is the revenue contribution of each age group

```

select
    age_group,
    sum(purchase_amount) as revenue
from customer

```

group by age\_group  
order by revenue desc

age_group text	revenue numeric
Young Adult	62143
Middle-aged	59197
Adult	55978
Senior	55763