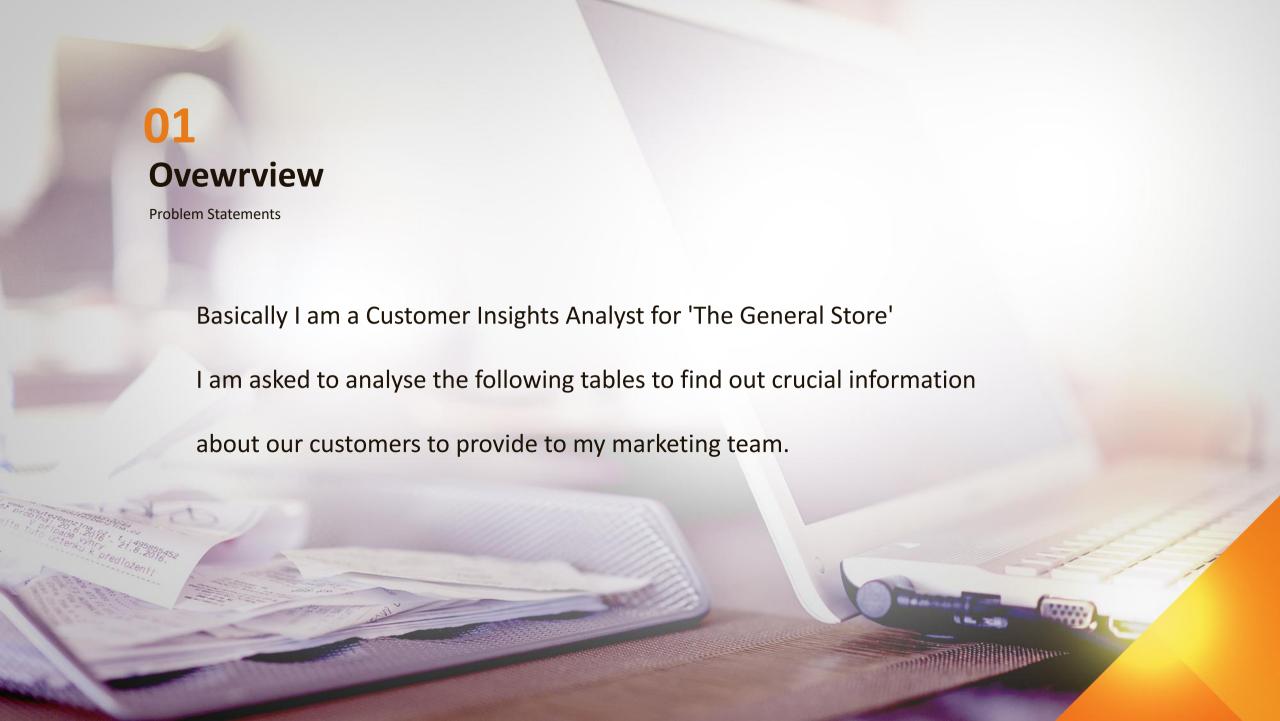




01 Overview

02 Tables

03 Questions & Answers



02 Tables

There are mainly 5 tables:

customers

customer_id	first_shop	age	rewards	can_email
1	2022-03-20	23	yes	no
2	2022-03-25	26	no	no
3	2022-04-06	32	no	no
4	2022-04-13	25	yes	yes
5	2022-04-22	49	yes	yes
6	2022-06-18	28	yes	no
7	2022-06-30	36	no	no
8	2022-07-04	37	yes	yes

orders

order_id	customer_id	date_shop	sales_channel	country_id
1	1	2023-01-16	retail	1
2	4	2023-01-20	retail	1
3	2	2023-01-25	retail	2
4	3	2023-01-25	online	1
5	1	2023-01-28	retail	3
6	5	2023-02-02	online	1
7	6	2023-02-05	retail	1
8	3	2023-02-11	online	3

baskets

order_id	product_id
1	1
1	2
1	5
2	4
3	3
4	2
4	1
5	3
5	5
6	4
6	3
6	1
7	2
7	1
8	3
8	3

products

product_id	category	price	
1	food	5.99	
2	sports	12.49	
3	vitamins	6.99	
4	food	0.89	
5	vitamins	15.99	

country

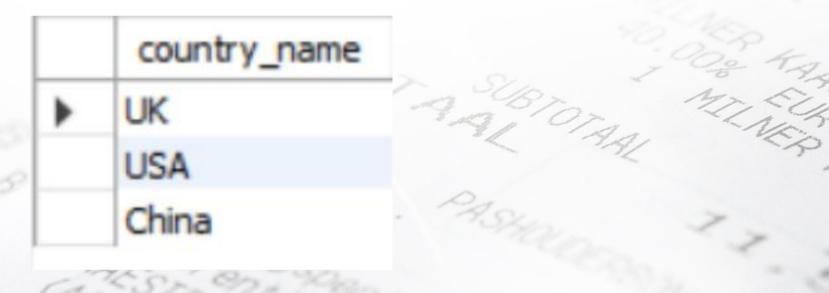
country_id	country_name	head_office
1	UK	London
2	USA	New York
3	China	Beijing

1. What are the names of all the countries in the country table?

SQL Statements:

SELECT C.country_name

FROM datacoach.country C;



2. What is the total number of customers in the customers table?

SQL Statements:

SELECT COUNT(*) AS Total_Number_of_Customer

FROM datacoach.customers;



3. What is the average age of customers who can receive marketing emails (can_email is set to 'yes')?

SQL Statements:

SELECT round((avg(c.age)),2) as Average_age

FROM datacoach.customers C

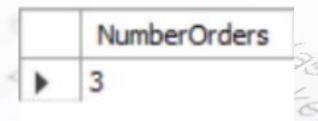
WHERE C.can_email= 'yes';



4. How many orders were made by customers aged 30 or older?

SQL Statements:

SELECT count(o.order_id) as NumberOrders
FROM datacoach.customers c
join datacoach.orders o on c.customer_id=o.customer_id
WHERE c.age>=30;



5. What is the total revenue generated by each product category?

SQL Statements:

SELECT P.category, SUM(P.price) as Revenue

FROM datacoach.products P

JOIN datacoach.baskets B ON P.product id = B.product id

JOIN datacoach.orders O ON B.order_id=O.order_id

GROUP BY P.category;

-		2 " E Warm	
	category	Revenue	5.
•	food	25.74	
	sports	37.47	
	vitamins	66.93	

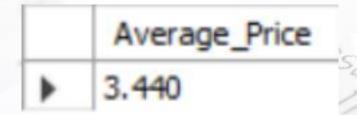
6. What is the average price of products in the 'food' category?

SQL Statements:

SELECT round((avg(p.price)),3) as Average_Price FROM datacoach.products P

WHERE P.category='Food'

group by p.category;



7. How many orders were made in each sales channel (sales_channel column) in the orders table?

SQL Statements:

SELECT sales_channel, COUNT(order_id) AS Numbers_order

FROM datacoach.orders

GROUP BY sales_channel;

	sales_channel	Numbers_order
>	retail	5
	online	3

8. What is the date of the latest order made by a customer who can receive marketing emails?

```
SQL Statements:
```

SELECT max(o.date_shop) as LatestOrderDate
FROM datacoach.orders O
JOIN datacoach.customers C ON O.customer_id=C.customer_id
WHERE C.can email='yes';

Output:

LatestOrderDate

▶ 2023-02-02

9. What is the name of the country with the highest number of orders?

```
SQL Statements:
SELECT C.country_id, C.country_
```

SELECT C.country_id, C.country_name, COUNT(O.order_id) AS NumberOrder

FROM datacoach.country C

JOIN datacoach.orders O ON C.country_id=O.country_id

GROUP BY C.country_id, C.country_name

order by NumberOrder DESC

LIMIT 1;

	country_id	country_name	NumberOrder
>	1	UK	5

10. What is the average age of customers who made orders in the 'vitamins' product category?

SQL Statements:

SELECT round((avg(C.age)),2) AS Average Age

FROM datacoach.customers C

JOIN datacoach.orders O ON C.customer_id=O.customer_id

JOIN datacoach.baskets B ON O.order_id=B.order_id

JOIN datacoach.products P ON P.product_id=B.product_id

WHERE P.category= 'Vitamins';

