

## Individual Assignment

# SQL The Look Commerce

Week 4&5, January 2023 Ichsan Maulana - Section Paris - Team 1



### **SQL** Assignment

This assignment is a continuation of the intermediate assignment to understand of more complex analysis in SQL



### **Brief**

As you already give the overall picture of current business performance with deep dive analysis. However, the company is in the optimization mode caused by the potential crisis in 2023. The management has decided to cut off resources in some categories with the lowest growth in the past 1 year. On another side, they want to continue the analysis by understanding the retention behaviors of the users and how to increase the retention rate

#### Important thing:

- 1. What is the purpose of this request?
- 2. Business Question
- 3. Data Understanding

### **Problems Ticket**



#### Request Purpose:

Findings the categories with the lowest business growth (profit & revenue) in the past 1 year

#### **Business Question:**

- What is categories with the lowest revenue growth in past 1 year?
- What is categories with the lowestprofit growth in past 1 year?
- What categories need to be deprioritized

### **Problems Ticket**



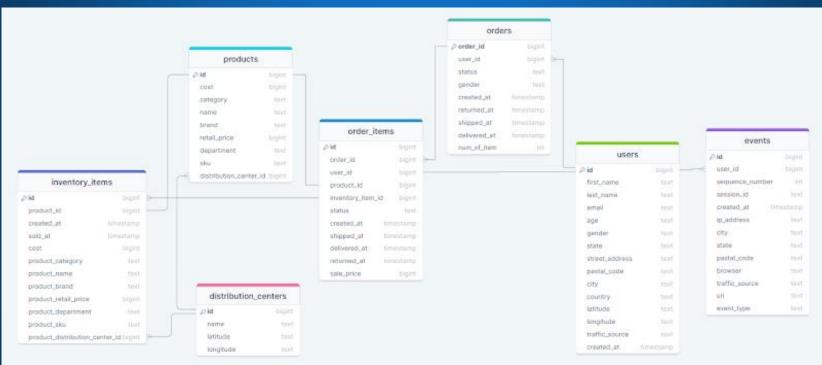
#### Request Purpose:

Find the categories with the lowest business growth (revenue and profit) in the past 1 year.

#### **Business Question:**

- What is categories with the lowest revenue growth in past 1 year?
- What is categories with the lowest profit growth in past 1 year?
- What categories need to be depriorized?

### **Entity Relationship Diagram**



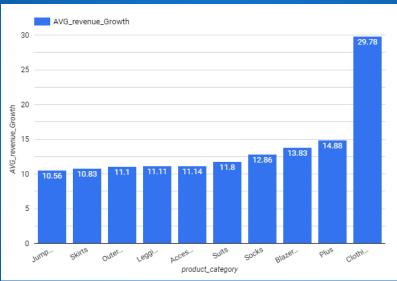


# What is categories with lowest revenue growth in past 1 year

```
WITH Observ1 AS
          SELECT EXTRACT(MONTH FROM DATE_TRUNC(ord_items.created_at, MONTH)) AS month,
                product_category,
                SUM (sale_price-cost) as Profit,
                SUM (sale_price) as Revenue
          FROM 'sql-project-376612.thelook_ecommerce.order_items' ord_items
          INNER JOIN 'sql-project-376612.thelook_ecommerce.inventory_items' inv_items
 9
          ON ord_items.inventory_item_id = inv_items.id
          WHERE DATE (ord_items.created_at) BETWEEN '2022-01-01' AND '2022-12-31'
10
11
          GROUP BY 1,2
12
          ORDER BY 1.2
13
14
    Growth AS
16
17
          SELECT Observ1.month,
         product_category,
18
19
          Profit,
28
          Revenue.
21
          Profit/LAG (profit) OVER (PARTITION BY product_category ORDER BY month) -1 as profit_growth,
          Revenue/LAG (Revenue) OVER (PARTITION BY product_category ORDER BY month) -1 as revenue_growth
22
23 FROM Observ1
24
   SELECT DISTINCT product_category,
                      AVG (Growth.profit_growth) OVER (PARTITION BY product_category)*100 as AVG_profit_Growth,
26
                      AVG (Growth.revenue_growth) OVER (PARTITION BY product_category)*100 as AVG_revenue_Growth
27
   FROM Growth
29 ORDER BY 2.3 ASC
```



# What is categories with lowest revenue growth in past 1 year



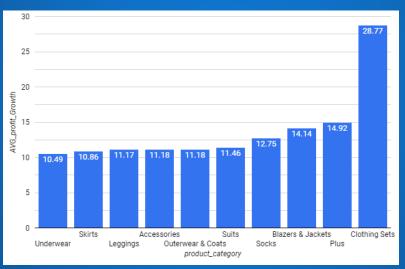
This is the top 5 product category based on average profit growth and we only focused on clothing sets, plus, blazers & jackets, socks and suits

\*this profit is monthly-year based



#### What is categories with lowest profit growth in past 1 year

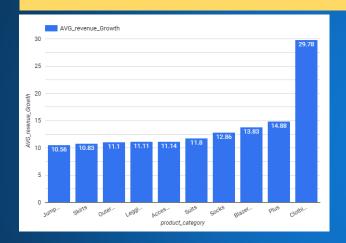
#### Top 5 Category Based on Average Profit Growth

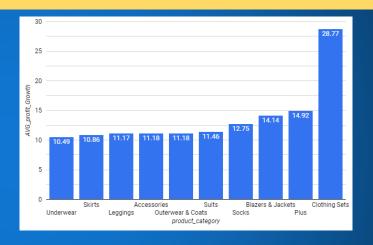


As we can see from this chart, Underwear, Skirts, Leggings, Accessories and Outwear & Coat is the top 5 Bottom average revenue

\*this profit is monthly-year based

### What is Category Need to be Deprioritized





As we can see from both chart, we can deprioritized category at the bottom of each chart whic is Jumpsuit & Rompers and Underwear.

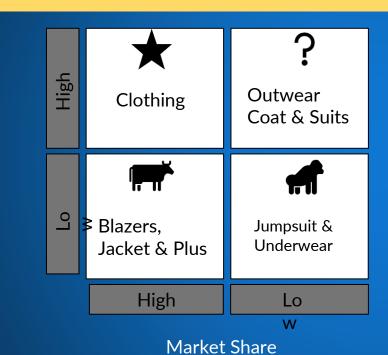


#### Reccomendation

The company is need to keep supply in top 5 category in both charts and create prediction for demand best seller category. We also can communicate with BCG Matrix to draw market strategy, segmenting, targeting and positioning

### Reccomendation

Market Growth



By the matrix, the company can put the category in each classification to communicate to customer

- Stars: product that have high market share in rapidly growing market
- Cows : product that have a high market share in a slow-growing market
- Question marks : product that have a low market share in a rapidly growing market
- Ape: product that have a low market share in a slow growing market



# Thankyou for your attention

# Merci pour votre attention

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