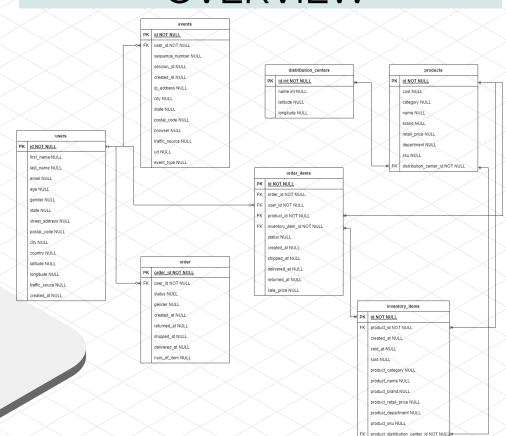


OVERVIEW



TheLook is fictitious eCommerce clothing site developed by the Looker team.

The dataset contains information about customers, products, orders, logistics, web events and digital marketing campaigns.



Number of Unique Users, Orders, and Total Sale Price per Status and Month

Time frame: January 2019 - August 2022



SCHEMA & RESULT

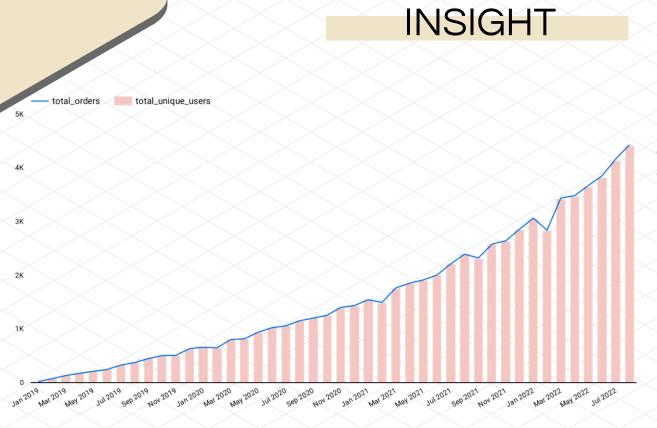
SCHEMA DETAILS PREVIEW LINEAGE

〒 Filter Enter property name or value

Field name	Туре	Mode
Month_Date	STRING	NULLABLE
Order_Status	STRING	NULLABLE
Total_Unique_Users	INTEGER	NULLABLE
Total_Order	INTEGER	NULLABLE
Total_Sale_Price	FLOAT	NULLABLE

JOB IN	FORMATION	RESULTS	JSON EXE	CUTION DETAILS EXE	CUTION GRAPH	PREVIEW
Row	Month_Date	-	Order_Status	Total_Unique_Us	Total_Order	Total_Sale_Price
1	Jan 2019		Cancelled	4	4	68782999.8
2	Feb 2019		Cancelled	10	10	52308999.8
3	Mar 2019		Cancelled	20	20	158223000
4	Apr 2019		Cancelled	16	16	111728999
5	May 2019		Cancelled	30	30	279407000
6	Jun 2019		Cancelled	32	32	261999001
7	Jul 2019		Cancelled	41	41	348161002
8	Aug 2019		Cancelled	66	66	596060000
9	Sep 2019		Cancelled	76	77	631660000
10	Oct 2019		Cancelled	79	79	713801000
11	Nov 2019		Cancelled	70	70	631860000
12	Dec 2019		Cancelled	90	91	685543001

```
SELECT FORMAT_TIMESTAMP ("%b %Y",TIMESTAMP_TRUNC(order_items.created_at, MONTH)) as Month_Date,
      order_items.status as Order_Status,
      COUNT (DISTINCT order_items.user_id) as Total_Unique_Users,
      COUNT (DISTINCT order_items.order_id) as Total_Order,
      SUM (order_items.sale_price) as Total_Sale_Price
FROM `bigguery-public-data.thelook_ecommerce.users` users INNER JOIN
`bigguery-public-data.thelook_ecommerce.order_items` order_items
ON user_id = order_items.user_id
WHERE order_items.created_at BETWEEN "2019-01-01" AND "2022-09-01"
AND order_items.status IN ("Shipped", "Complete", "Returned", "Processing", "Cancelled")
GROUP BY 1,2
ORDER BY 2, PARSE_DATE ("%b %Y", Month_Date);
```



Overall, **the growth rate** of Total Orders is **directly proportional** to Total Users, where the two attributes **steadily** have the **same growth rate**, so it can be concluded that each user at least buys at least once per month.

THE GROWTH OF TOTAL ORDERS & TOTAL USERS

INSIGHT



Sales generated from each order status have an increasing trend from year to year showing good performance.
This is also supported by the level of sales generated from orders with completed status exceed orders with canceled status.

TOTAL SALE PER ORDER STATUS

Unique Users, Average Order Value (AOV), Frequency From Monthly Completed Order

Time frame: January 2019 - August 2022



SCHEMA & RESULT

SCHEMA DETAILS PREVIEW LINEAGE

〒 Filter Enter property name or value

Total_Unique_Buyer

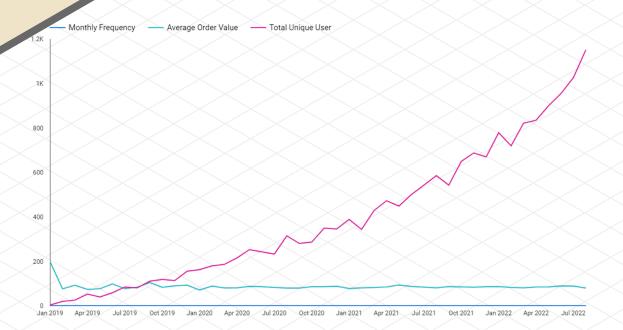
Field name	Туре	Mode
Month_Year	STRING	NULLABLE
Frequencies_per_Month	FLOAT	NULLABLE
Average_Order_Value	FLOAT	NULLABLE

INTEGER

NULLABLE

JOB IN	FORMATION	RESULTS JSON	EXECUTION DETA	AILS EXECUTION GRAPH
Row	Month_Year	Frequencies_per_Month //	Average_Order_Value	Total_Unique_Buyer
1	Jan 2019	1.0	199.08	4
2	Feb 2019	1.0	76.73	20
3	Mar 2019	1.0	92.7	26
4	Apr 2019	1.0	74.09	53
5	May 2019	1.0	77.28	40
6	Jun 2019	1.02	99.1	59
7	Jul 2019	1.0	77.77	85
8	Aug 2019	1.0	84.13	81
9	Sep 2019	1.0	105.08	111
10	Oct 2019	1.0	83.6	119

INSIGHT



TOTAL MONTHLY FREQUENCY, AOV & UNIQUE USER

As the total unique users increase from month to month, the level of AOV (Average Order Value) is tend to stagnant. This may indicate that there are many new users but only small-scale transactions.

Users' Information with Refund Status

Time frame : August 2022



SCHEMA & RESULT

SCHEMA DETAILS PREVIEW LIN

〒 Filter Enter property name or value

Field name	Туре	Mode
User_ID	INTEGER	NULLABLE
EMail	STRING	NULLABLE
FirstName	STRING	NULLABLE
LastName	STRING	NULLABLE

JOB IN	FORMATION	RESULTS JSON	EXECUTION	DETAILS
Row /	User_ID //	EMail //	FirstName	LastName //
1	502	paulmartinez@example.com	Paul	Martinez
2	785	lindashelton@example.org	Linda	Shelton
3	818	seanestrada@example.com	Sean	Estrada
4	822	josephcollins@example.com	Joseph	Collins
5	1267	thomasjohnson@example.org	Thomas	Johnson
6	1331	andrewheath@example.com	Andrew	Heath
7	1531	robertmiller@example.net	Robert	Miller
8	1898	robertweaver@example.org	Robert	Weaver
9	2059	jasonwade@example.com	Jason	Wade
10	2580	anthonylewis@example.net	Anthony	Lewis

```
SELECT
      users.id as User_ID,
      users.email as EMail,
      users.first_name as FirstName,
      users.last_name as LastName,
FROM `bigquery-public-data.thelook_ecommerce.users` users INNER JOIN
`bigquery-public-data.thelook_ecommerce.orders` orders
ON users.id = orders.user_id
WHERE orders.returned_at BETWEEN "2022-08-01" AND "2022-08-31"
AND orders.status = "Returned"
ORDER BY User_ID;
```

Top Five Least and Most Profitable Product

Time frame : All Time



SCHEMA & RESULT

CHEMA	DETAILS	PREVIEW	LINEAGE									
∓ Fili	ter Enter property nar	me or value										
	Field name	Туре	Mode									
	Product_ID	INTEGER	NULLABLE									
	Product_Name	STRING	NULLABLE									
	Total_Sales	FLOAT	NULLABLE									
	Total_Cost	FLOAT	NULLABLE									
	Total_Gross_Profit	FLOAT	NULLABLE	TION	RESULTS	JSON	EXECUTION DETAILS	EXECUTIO	N GRAPH PR	EVIEW		
	Rank_Gross_Profit	STRING	NULLABLE								Total_Gross_Profit	Rank_Gro
	\sim		1 2	4447	Darla			h	999.0	404.6	594.4	
					Darra				333.0	10 1.0	394.4	Highest I
				4341	Nobis Yatesy Parka				950.0	381.9	568.1	0.50
			2 2			Bionic Soft She	ell Jacket - Men's					Highest 2
			2 2 3 2	4341	Nobis Yatesy Parka				950.0	381.9	568.1	Highest 1 Highest 2 Highest 3 Highest 4

GENUINE LEATHER SNAP ON STUDDED WHITE PIANO BELT FITS ANY BUCKLE

Set of 2 - Replacement Insert For Checkbook Wallets Card Or Picture Insert

Solid Color Leather Adjustable Skinny Belt with

Indestructable Aluminum Aluma Wallet - RED

Individual Bra Extenders

1.5

1.51

1.75

0.49

0.02

0.62

0.64

1.01

0.18

0.01

0.88

0.87

0.74

0.31

0.01

Lowest 5

Lowest 4

Lowest 3

Lowest 2

Lowest 1

14202

13629

12536

14159

14235

8

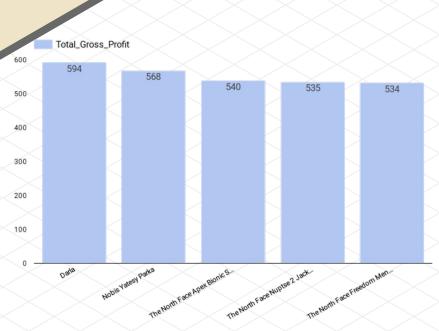
9

10

```
SELECT Product_ID, Product_Name, Total_Sales, Total_Cost, Total_Gross_Profit,
      CONCAT("Highest ", RANK() OVER (ORDER BY Total_Gross_Profit DESC)) as Rank_Gross_Profit
FROM
SELECT id AS Product_ID,
      name as Product_Name,
      ROUND (SUM (retail_price),2) AS Total_Sales,
      ROUND (SUM (cost), 2) as Total_Cost,
      ROUND (SUM (retail_price-cost), 2) AS Total_Gross_Profit,
FROM `bigquery-public-data.thelook_ecommerce.products`
GROUP BY 1,2
ORDER BY 5 DESC
LIMIT 5
  GPMax
           ..(1/2)
```

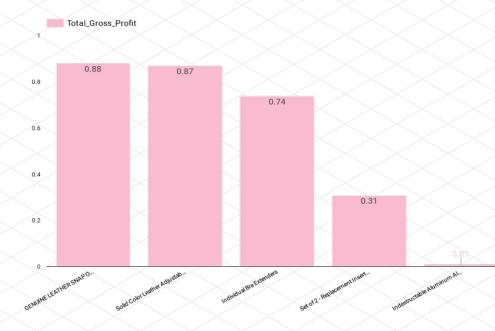
```
UNION ALL ..(2/2)
  SELECT Product_ID, Product_Name, Total_Sales, Total_Cost, Total_Gross_Profit,
        CONCAT("Lowest ", RANK() OVER (ORDER BY Total_Gross_Profit ASC)) as Rank_Gross_Profit
  FROM
  SELECT id AS Product_ID,
        name as Product_Name,
        ROUND (SUM (retail_price), 2) AS Total_Sales,
        ROUND (SUM (cost), 2) as Total_Cost,
        ROUND (SUM (retail_price-cost),2) AS Total_Gross_Profit,
  FROM `bigguery-public-data.thelook_ecommerce.products`
 GROUP BY 1 2
 ORDER BY 5 ASC
LIMIT 5
• ) GPMin
  ORDER BY Total_Gross_Profit DESC;
```

INSIGHT



TOP 5 HIGHEST PROFITABLE PRODUCT

Dominated by Outerwear & Coats



TOP 5 LOWEST PROFITABLE PRODUCT

Dominated by Accessories

Month-to-Date Breakdown of Total Profit by Product Categories

Time frame: 15 May 2022 - 15 August 2022



SCHEMA & RESULT

SCHEMA DETAILS PREVIEW LINEAGE

Filter Enter property name or value

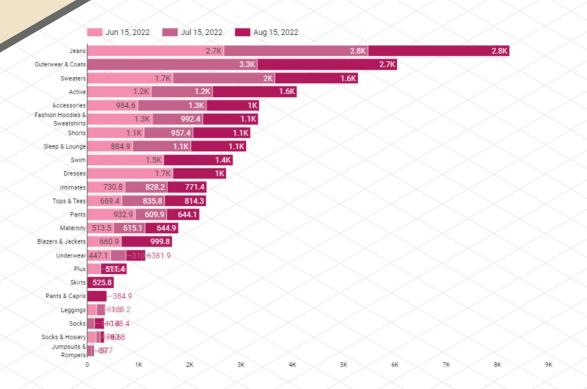
Field name	Type	Mode
Order_Date	DATE	NULLABLE
Product_Category	STRING	NULLABLE
Total_Profit	FLOAT	NULLABLE

JOB IN	FORMATION	RESULTS JSON	EXECUTION DETAILS
Row	Order_Date	Product_Category	Total_Profit
1	2022-06-15	Accessories	984.63
2	2022-07-15	Accessories	1339.6
3	2022-08-15	Accessories	1034.15
4	2022-06-15	Active	1245.15
5	2022-07-15	Active	1191.04
6	2022-08-15	Active	1649.42
7	2022-06-15	Blazers & Jackets	660.92
8	2022-08-15	Blazers & Jackets	999.77
9	2022-06-15	Dresses	1665.72
10	2022-08-15	Dresses	1044.7

```
WITH profit AS
( SELECT DATE(order_item.shipped_at) AS Order_Date,
         product.category AS Product_Category,
         ROUND(SUM(order_item.sale_price - product.cost),2) AS category_profit
 FROM `bigquery-public-data.thelook_ecommerce.order_items` AS order_item
  INNER JOIN `bigquery-public-data.thelook_ecommerce.products` AS product
 ON order_item.product_id = product.id
 WHERE order_item.shipped_at BETWEEN "2022-01-01" AND "2022-08-16" AND status = "Complete"
 GROUP BY 1,2
  ORDER BY 2,1
```

```
tp AS
  SELECT Order_Date,
         Product_Category,
         category_profit,
         SUM(category_profit) OVER(PARTITION BY product_category, EXTRACT(MONTH FROM order_date)
ORDER BY product_category, order_date) AS Total_Profit
  FROM profit
  ORDER BY 2,1
SELECT Order_Date, Product_Category, Total_Profit
FROM tp
•WHERE order_date BETWEEN "2022-06-01" AND "2022-08-16"
      AND EXTRACT(DAY FROM order_date) = 15;
```

INSIGHT



Jeans outperformed the total profit generated from the first month of the timeline. Although in the July 2022 period, the total profit generated by the Outerwear & Coats category exceeded Jeans, in total Jeans consistently outperformed all categories

MONTH-TO-DATE TOTAL PROFIT BY PRODUCT CATEGORY



Monthly Breakdown of Inventory Growth Percentage by Product Category

Time frame: January 2019 - April 2022

SCHEMA & RESULT

SCHEMA DETAILS PREVIEW

LINEAGE

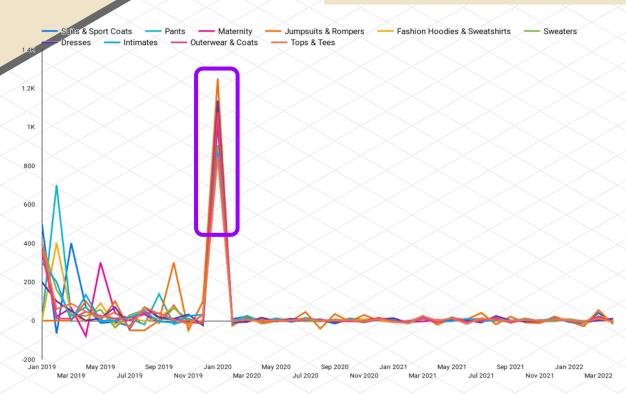
∓ Filter	Enter property name or value	9
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Field name	Туре	Mode
Month_Year	DATE	NULLABLE
Category	STRING	NULLABLE
Growth_Percentage	STRING	NULLABLE

JOB IN	FORMATION	RESULTS	JSON	EXECUTION DETAILS
Row	Month_Year	Category	//	Growth_Percentage
1	2022-04-01	Accessories		0.6%
2	2022-03-01	Accessories		9.33%
3	2022-02-01	Accessories		-7.42%
4	2022-01-01	Accessories		7.84%
5	2021-12-01	Accessories		-1.77%
6	2021-11-01	Accessories		-2.81%
7	2021-10-01	Accessories		7.37%
8	2021-09-01	Accessories		1.36%
9	2021-08-01	Accessories		-4.38%
10	2021-07-01	Accessories		4.94%

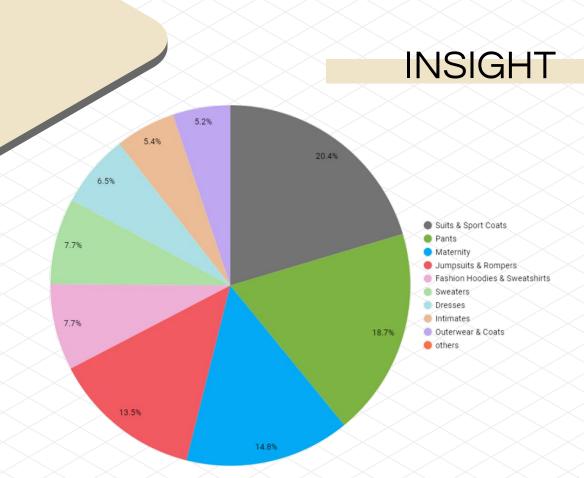
```
WITH inventory AS
 ( SELECT DATE_TRUNC(DATE(created_at), MONTH) AS Month_Year,
          product_category AS Category,
          COUNT(DISTINCT(id)) AS Inventory_Stock
   FROM `bigquery-public-data.thelook_ecommerce.inventory_items`
   GROUP BY 2,1
 inventory_previous AS
 ( SELECT Month_Year,
          Category,
          Inventory_Stock,
          LAG(Inventory_Stock) OVER (PARTITION BY Category ORDER BY Month_Year) AS Previous_Stock
   FROM inventory
'SELECT Month_Year,
        Category,
        CONCAT(ROUND(((Inventory_Stock-Previous_Stock)/Previous_Stock)*100,2), "%") AS Growth_Percentage
FROM inventory_previous
WHERE Month_Year BETWEEN '2019-01-01' AND '2022-04-30'
 ORDER BY 2 ASC, 1 DESC;
```

INSIGHT



Inventory growth has increased sharply across all categories on January 2020. Meanwhile, before sharply increase, some categories had their peak inventory growth, following the momentum, the inventory growth tend to stable.

TOTAL INVENTORY GROWTH MoM



Over the specified time frame, **Suits & Sport Coats, Pants,** and **Maternity** were the categories with the **highest** total average inventory growth.

THE AVERAGE INVENTORY GROWTH BY CATEGORY



Monthly Retention Cohorts of Completed Purchased

Time frame: 2022

SCHEMA & RESULT

SCHEMA DETAILS PREVIEW

LINEAGE

Filter Enter property name or value

Field name	Туре	Mode
cohort_month	DATE	NULLABLE
cohort_size	INTEGER	NULLABLE
month_number	INTEGER	NULLABLE
total_user	INTEGER	NULLABLE
percentage	FLOAT	NULLABLE

JOB INFORMATION		RESULTS	JSON EXECUTION DETAILS						
Row	cohort_month /	cohort_size	month_number	total_user	percentage //				
1	2022-01-01	730	0	730	1.0				
2	2022-01-01	730	1	27	0.03698630				
3	2022-01-01	730	4	11	0.01506849				
4	2022-01-01	730	2	7	0.00958904				
5	2022-01-01	730	7	5	0.00684931				
6	2022-01-01	730	10	4	0.00547945				
7	2022-01-01	730	3	7	0.00958904				
8	2022-01-01	730	8	7	0.00958904				
9	2022-01-01	730	5	12	0.01643835				
10	2022-01-01	730	11	7	0.00958904				

```
WITH complete_order AS
    SELECT *
    FROM`bigquery-public-data.thelook_ecommerce.order_items`
    WHERE status = 'Complete' AND DATE_TRUNC(DATE(created_at), MONTH) BETWEEN '2022-01-01' AND '2022-12-31'
cohort_items AS
    SELECT DISTINCT (user_id) user_id,
        MIN(DATE(DATE_TRUNC(created_at, MONTH))) AS cohort_month
    FROM complete_order
    GROUP BY 1
user_activities AS
   SELECT DISTINCT (comp_ord.user_id) AS user_id,
          DATE_DIFF(DATE(DATE_TRUNC(created_at, MONTH)), cohort.cohort_month, MONTH) AS month_number
    FROM complete_order AS comp_ord
    LEFT JOIN cohort_items AS cohort
    ON comp_ord.user_id = cohort.user_id
       GROUP BY 1,2
```

```
cohort_size AS
    SELECT cohort_month, COUNT(cohort_month) as num_users
    FROM cohort_items
    GROUP BY 1
    ORDER BY 1),
retention_table AS
    SELECT items.cohort_month AS cohort_month,
           act.month_number AS month_num,
           COUNT(items.cohort_month) AS num_users
    FROM user_activities AS act
    LEFT JOIN cohort_items AS items
    ON act.user_id = items.user_id
    GROUP BY cohort_month, month_number
    ORDER BY cohort_month, month_number)
```

INSIGHT

Period	Total User	Retention Percentage on <i>n</i> month											
		0	1	2	3	4	5	6	7	8	9	10	11
Jan-2022	730	100.00%	3.70%	0.96%	0.96%	1.51%	1.64%	0.41%	0.68%	0.96%	0.68%	0.55%	0.96%
Feb-2022	668	100.00%	4.19%	1.65%	2.10%	0.75%	1.35%	1.05%	0.75%	0.90%	1.05%	1.65%	
Mar-2022	808	100.00%	2.72%	0.99%	1.24%	1.36%	0.37%	1.61%	1.11%	0.62%	1.24%		
Apr-2022	755	100.00%	3.44%	0.66%	1.19%	0.93%	0.93%	1.59%	1.19%	1.32%			
May-2022	854	100.00%	1.87%	1.41%	0.70%	1.64%	1.64%	1.52%	1.99%				
Jun-2022	877	100.00%	2.74%	0.68%	1.25%	2.05%	1.37%	0.80%					
Jul-2022	965	100.00%	2.49%	1.35%	1.55%	1.14%	1.14%						
Aug-2022	1011	100.00%	3.86%	0.89%	2.37%	2.18%							
Sep-2022	1080	100.00%	3.33%	1.67%	1.57%		_						
Oct-2022	1095	100.00%	2.83%	1.28%	35								
Nov-2022	1207	100.00%	3.07%										
Dec-2022	1299	100.00%											

Following fluctuations in total users in the first 4 months, an **increasing trend** is seen in the **fifth month** until the end of 2022. However, the **very low retention rate (less than 5%)** during 2022 indicates that only a few number of users are re-purchase from The Look e-commerce.

RECOMMENDATION



EXISTING USER

The Look e-commerce should focus on retaining existing customers as well such as providing excellent customer · service and offering benefits to loyal customers. . . .



AVERAGE ORDER VALUE

Encourage users to spend more by implementing strategist such as offering bundle deals, upselling, or cross-selling



USER EXPERIENCE

Improving user experience by develop more appealing interface and provide multiple payment methods.





I'm eager to hear your feedback on this project, so please feel free to reach me out anytime!

> viva.nuralifiya@gmail.com +62-8988-0686-56







CREDITS: This presentation template was created by **Slidesgo**, and includes icons by **Flaticon**, and infographics & images by **Freepik**