

Alif Abdul Hakim



DATA ANALYST PORTFOLIO



INTRODUCING₀₂ ME

With over 1 year of experience in data analytics through academic projects, bootcamps, and teaching assistant roles, I am proficient in Python, SQL, Excel, Looker and Power BI for data processing, cleaning, and visualization. Experienced in conducting **data validation, exploratory analysis, and building interactive dashboards** to **deliver actionable insights that support business decision making**. Strong analytical and problem solving abilities with a proven record of ensuring data accuracy and consistency across large datasets.

BACKGROUND

03



Institut Teknologi Nasional Bandung

Informatics | 3.72/4.00

- **MANAGED COURSE PROJECTS:** SUCCESSFULLY HANDLED AND COMPLETED VARIOUS ACADEMIC PROJECTS, DEMONSTRATING STRONG ORGANIZATIONAL AND TIME MANAGEMENT SKILLS.
- **TEACHING ASSISTANT FOR TWO PRACTICUM COURSES:** CONDUCTED PRACTICAL SESSIONS FOR TWO COURSES, PROVIDING GUIDANCE AND SUPPORT TO STUDENTS, ENHANCING THEIR UNDERSTANDING OF THE SUBJECT MATTER.

RevoU Tech Academy

Learn Data Analytics & Software Development with AI |
98/100

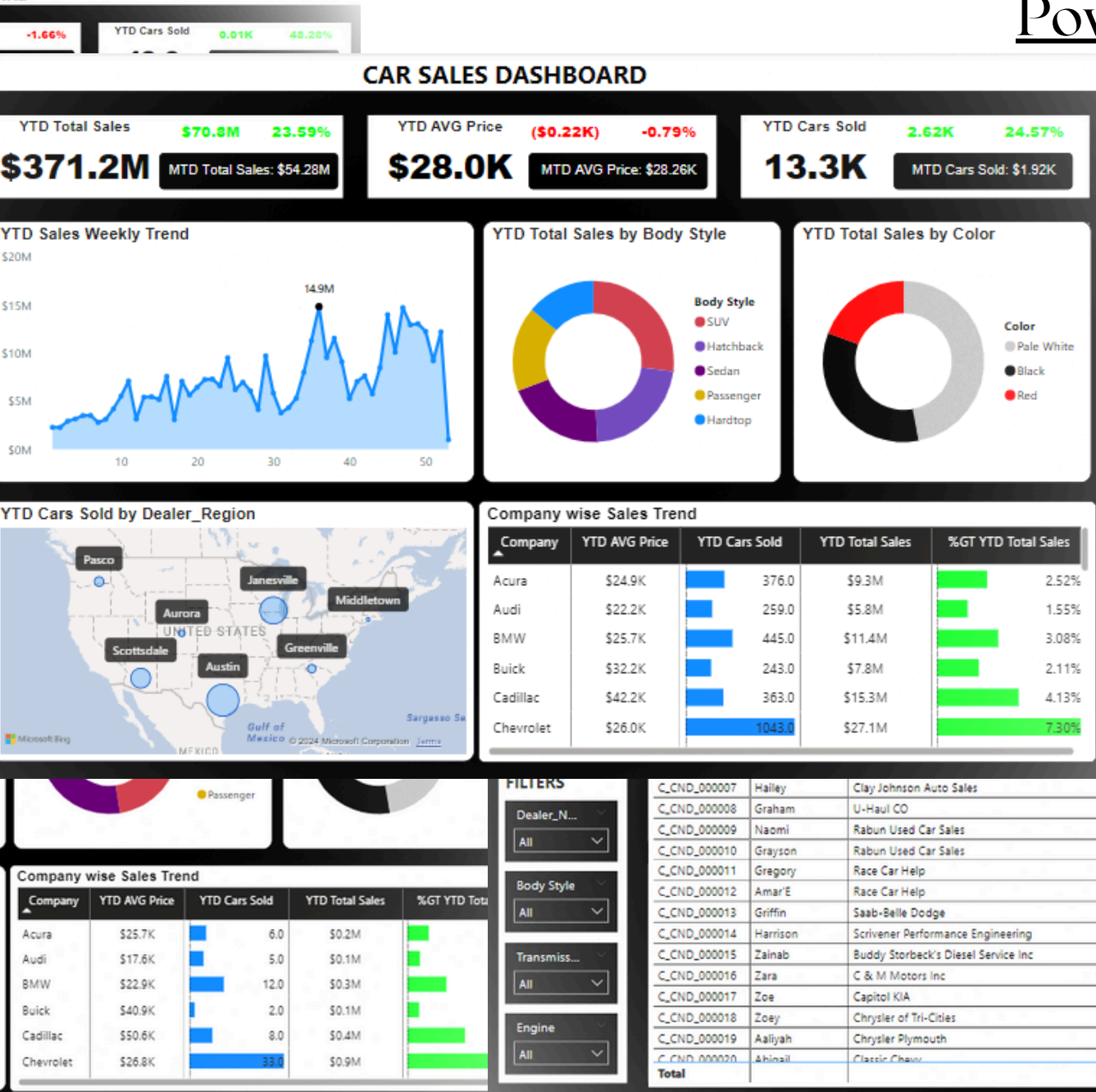
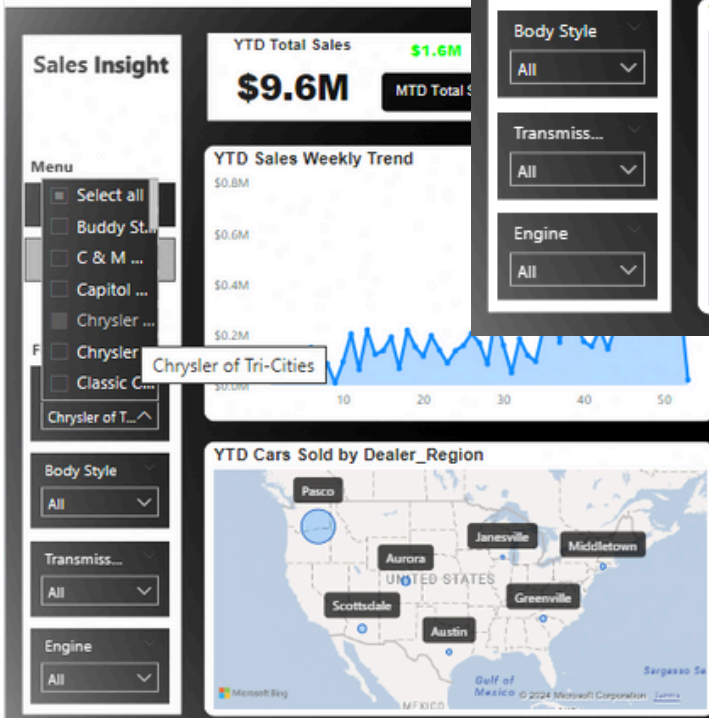
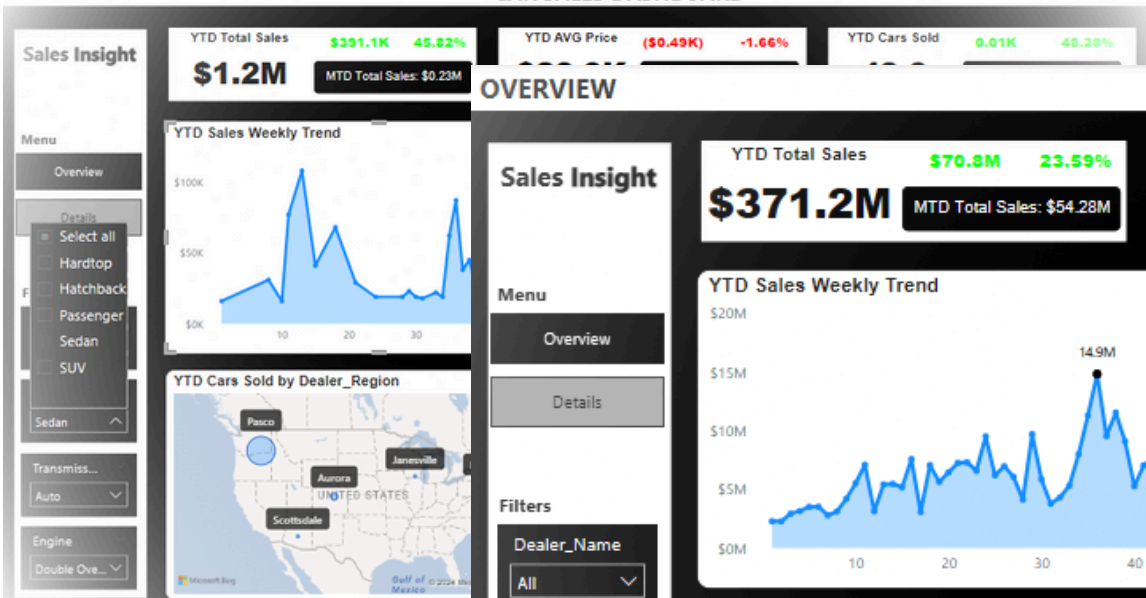


- LEARN ABOUT DATA PROCESSING IN DATA ANALYTICS, DATA VISUALIZATION AND COMMUNICATION WITH AI TOOLS, INTRO TO WEB DEVELOPMENT, FRONT-END DEVELOPMENT WITH AI TOOLS, AND CAREER DEVELOPMENT WITH AI TOOLS.
- PARTICIPATING IN A TEAM TO DEVELOP A CAPSTONE PROJECT.

PROJECT

CAR SALES

OVERVIEW



SHBOARD

YTD Total Sales **\$0.22K** YTD Total Sales: \$0.22K -0.79%

YTD Cars Sold **13.3K** YTD Cars Sold: 1.92K 24.57%

MTD AVG Price: \$28.26K

MTD Cars Sold: \$1.92K

Date	Company	Color	Model	Total Sales
Sunday, January 02, 2022	Ford	Black	Expedition	\$26.00K
Sunday, January 02, 2022	Dodge	Black	Durango	\$19.00K
Sunday, January 02, 2022	Cadillac	Red	Eldorado	\$31.50K
Sunday, January 02, 2022	Toyota	Pale White	Celica	\$14.00K
Sunday, January 02, 2022	Acura	Red	TL	\$24.50K
Sunday, January 02, 2022	Mitsubishi	Pale White	Diamante	\$12.00K
Sunday, January 02, 2022	Toyota	Pale White	Corolla	\$14.00K
Sunday, January 02, 2022	Mitsubishi	Pale White	Galant	\$42.00K
Sunday, January 02, 2022	Chevrolet	Pale White	Malibu	\$82.00K
Sunday, January 02, 2022	Ford	Pale White	Escort	\$15.00K
Sunday, January 02, 2022	Acura	Pale White	RL	\$31.00K
Sunday, January 02, 2022	Nissan	Pale White	Pathfinder	\$46.00K
Sunday, January 02, 2022	Mercury	Black	Grand Marquis	\$9.00K
Sunday, January 02, 2022	BMW	Pale White	323i	\$15.00K
Sunday, January 02, 2022	Chrysler	Pale White	Sebring Coupe	\$26.00K
Sunday, January 02, 2022	Subaru	Pale White	Forester	\$17.00K
Sunday, January 02, 2022	Hyundai	Black	Accent	\$18.00K
Sunday, January 02, 2022	Cadillac	Pale White	Eldorado	\$31.00K
Sunday, January 02, 2022	Toyota	Pale White	Land Cruiser	\$33.00K
Sunday, January 02, 2022	Honda	Pale White	Accord	\$21.00K
Total				\$671,525.47K

Power BI Project 05

[Get the Github link](#)

MAVEN ROASTERS COFFEE SHOP SALES

Sql ft Power BI Project 06

1 SELECT * FROM 'first-a0.kopi.sales' limit

2

3

4 -- Total Sales

5 SELECT

6 ROUND(SUM(unit_price * transaction_qty))

7 EXTRACT(MONTH FROM transaction_date) Mo

8 FROM 'first-a0.kopi.sales'

9 GROUP BY 2;

10

11

12 -- Menggunakan CTE ---

13 -- Total Sales KPI - MOM DIFFERENCE AND MO

14 WITH monthly_sales AS (

15 SELECT

16 EXTRACT(MONTH FROM transaction_dat

17 SUM(unit_price * transaction_qty)

18 FROM

19 'first-a0.kopi.sales'

20 GROUP BY

21 month

22)

23 SELECT

24 month,

25 ROUND(total_sales, 0) AS total_sales,

26 (total_sales - LAG(total_sales, 1) OVE

27 FROM

29 ORDER BY

30 month;

31

32

33

34 -- Total Orders

35 SELECT

36 COUNT(transaction_id) as Total_Orders,

37 EXTRACT(MONTH FROM transaction_date) Month

38 FROM 'first-a0.kopi.sales'

39 GROUP BY 2;

40

41

42 -- Total Orders KPI - MOM DIFFERENCE AND MOM GROWTH

43 WITH monthly_orders AS (

44 SELECT

45 EXTRACT(MONTH FROM transaction_date) AS month,

46 COUNT(transaction_id) AS total_orders

47 FROM

48 'first-a0.kopi.sales'

49 GROUP BY

50 month

51)

52 SELECT

53 month,

54 ROUND(total_orders, 0) AS total_orders,

55 (total_orders - LAG(total_orders, 1) OVER (ORDER BY month))

70 -- Total Quantity SOLD KPI - MOM DIFFERENCE AND MOM GROWTH

71 WITH monthly_sales AS (

72 --SELECT

73 --EXTRACT(MONTH FROM transaction_date) AS month,

74 --SUM(transaction_qty) AS total_quantity_sold

75 --FROM

76 --'first-a0.kopi.sales'

77 --GROUP BY

78 --month

79)

80 SELECT

81 --month,

82 --ROUND(total_quantity_sold, 0) AS total_quantity_sold,

83 --(total_quantity_sold - LAG(total_quantity_sold, 1) OVER (ORDER BY month)) / LAG(total_quantity_sold, 1) OVER (ORDER BY month) * 100 AS mom_increase_percentage

84 FROM

85 monthly_sales

Query results

JOB INFORMATION

RESULTS

CHART

JSON

EXECUTION DETAILS

EXECUTION GRAPH

Row	month	total_quantity_sold	mom_increase_percy
3		30406.0	29.11252653927...
4		36469.0	19.94014339275...
5		48233.0	32.25753379582...
6		50942.0	5.616486637779...

[Get the Github link](#)

This project aims to explore insights into sales data from **149,117** Maven Roasters **transaction records**, focusing on **total sales, total number of orders, and total quantity sold performance**. The data source comes from **Maven Analytics**. This dataset includes historical sales data for a coffee shop operating out of three NYC locations. Each store consists of several departments, and the task is to derive insights from total sales, total number of orders, and total quantity sold performance.

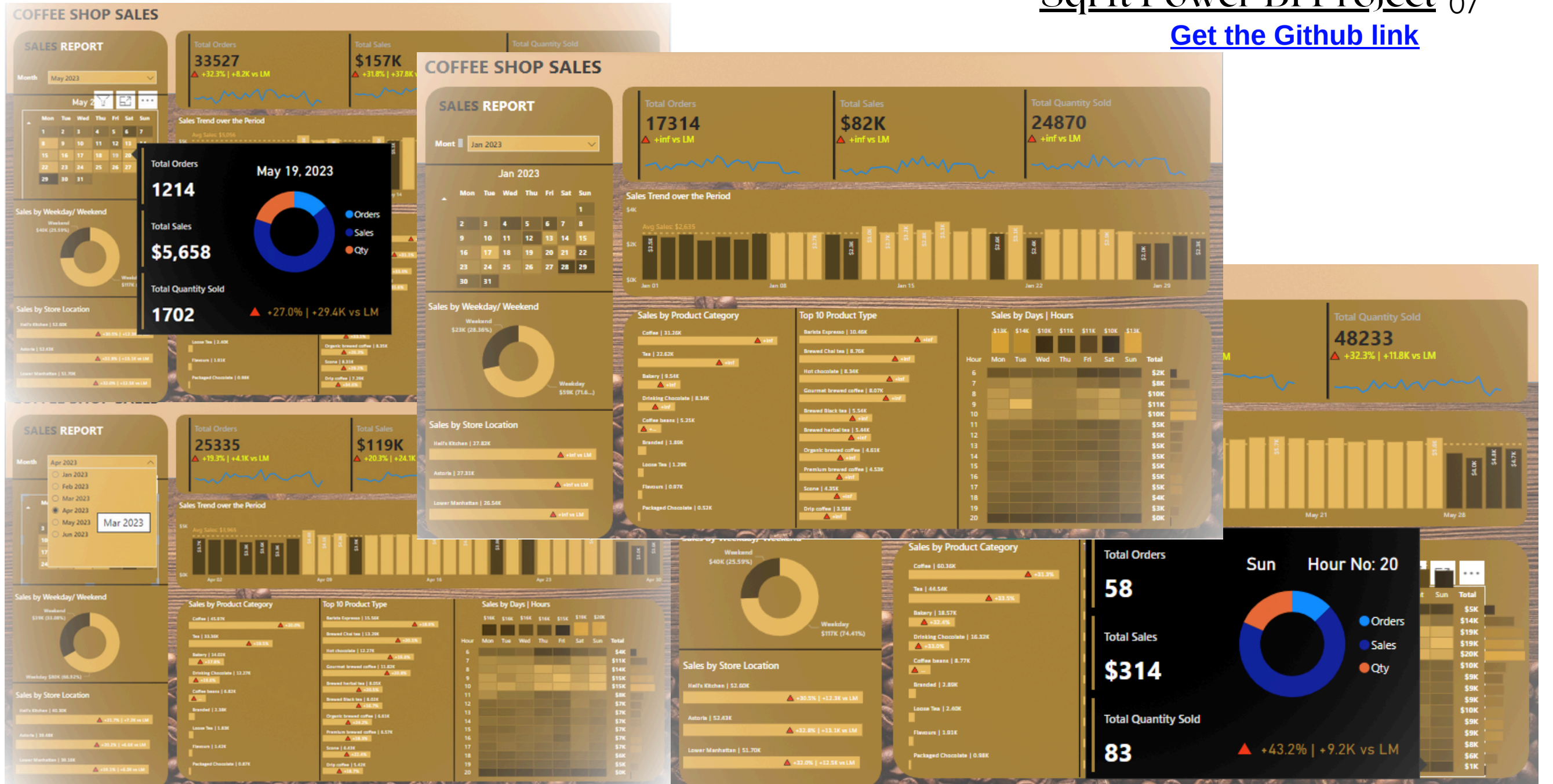
In the product category analysis, the number of unique product IDs will be identified along with the product distribution of each Maven Roasters branch. On the transaction quantity side, the number of best-selling products will be explored, and total sales, total number of orders, and total quantity sold performance will be **broken down by month**. Sales analysis will involve understanding the number of sales at **various times**, as well as on **weekends and weekdays**. A **Month-over-Month (MOM)** analysis will also be performed to identify sales trends and growth patterns.

By breaking it down into these aspects, **this project aims to provide a comprehensive picture of Maven Roasters' sales performance and provide strategic insights for improving and optimizing sales strategies.**

MAVEN ROASTERS COFFEE SHOP SALES

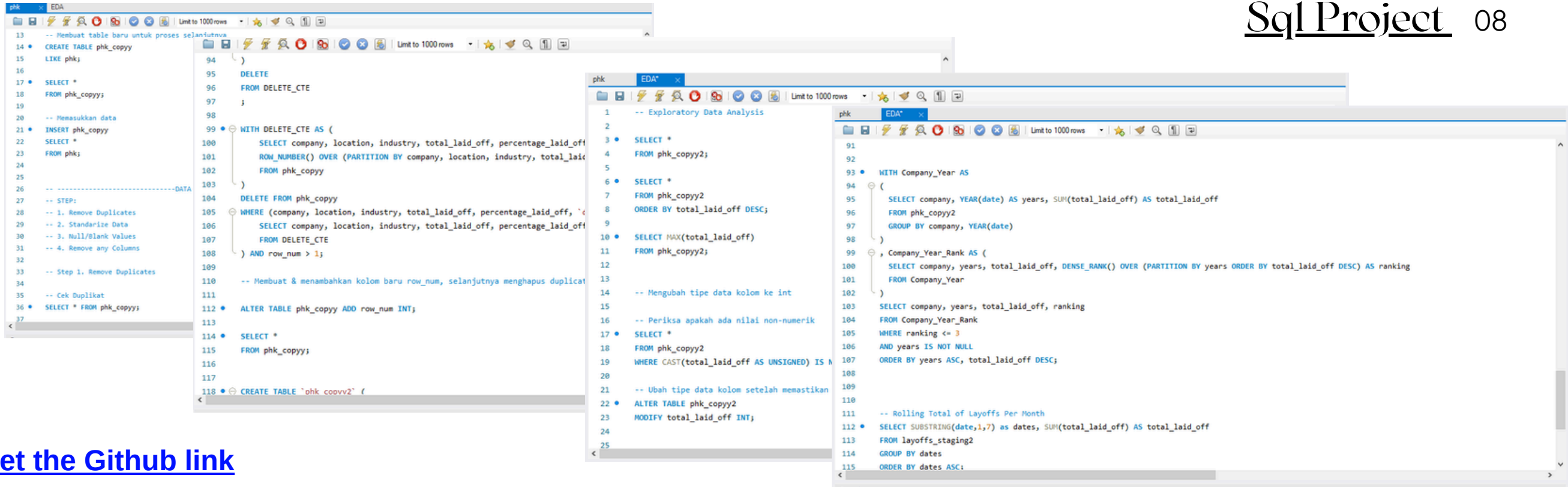
Sql ft Power BI Project 07

[Get the Github link](#)



STARTUP LAYOFFS

Sql Project 08



```
-- Membuat table baru untuk proses selanjutnya
14 • CREATE TABLE phk_copyy
15 LIKE phk;
16
17 • SELECT *
18 FROM phk_copyy;
19
20 -- Memasukkan data
21 • INSERT phk_copyy
22 SELECT *
23 FROM phk;
24
25 -----DATA
26 -- STEP:
27 -- 1. Remove Duplicates
28 -- 2. Standardize Data
29 -- 3. Null/Blank Values
30 -- 4. Remove any Columns
31
32 -- Step 1. Remove Duplicates
33
34 -- Cek Duplikat
35 • SELECT * FROM phk_copyy;
36
37
94 )
95 DELETE
96 FROM DELETE_CTE
97 ;
98
99 • WITH DELETE_CTE AS (
100     SELECT company, location, industry, total_laid_off, percentage_laid_off,
101            ROW_NUMBER() OVER (PARTITION BY company, location, industry, total_laid_off
102                                FROM phk_copyy
103                                )
104     DELETE FROM phk_copyy
105     WHERE (company, location, industry, total_laid_off, percentage_laid_off, 'c
106           SELECT company, location, industry, total_laid_off, percentage_laid_off
107           FROM DELETE_CTE
108           ) AND row_num > 1;
109
110 -- Membuat & menambahkan kolom baru row_num, selanjutnya menghapus duplicat
111
112 • ALTER TABLE phk_copyy ADD row_num INT;
113
114 • SELECT *
115 FROM phk_copyy;
116
117
118 • CREATE TABLE "phk_copyv2" (
1
-- Exploratory Data Analysis
2
3 • SELECT *
4 FROM phk_copyy2;
5
6 • SELECT *
7 FROM phk_copyy2
8 ORDER BY total_laid_off DESC;
9
10 • SELECT MAX(total_laid_off)
11 FROM phk_copyy2;
12
13
14 -- Mengubah tipe data kolom ke int
15
16 -- Periksa apakah ada nilai non-numerik
17 • SELECT *
18 FROM phk_copyy2
19 WHERE CAST(total_laid_off AS UNSIGNED) IS N
20
21 -- Ubah tipe data kolom setelah memastikan
22 • ALTER TABLE phk_copyy2
23 MODIFY total_laid_off INT;
24
25
91
92
93 • WITH Company_Year AS
94 (
95     SELECT company, YEAR(date) AS years, SUM(total_laid_off) AS total_laid_off
96     FROM phk_copyy2
97     GROUP BY company, YEAR(date)
98 )
99 , Company_Year_Rank AS (
100     SELECT company, years, total_laid_off, DENSE_RANK() OVER (PARTITION BY years ORDER BY total_laid_off DESC) AS ranking
101     FROM Company_Year
102 )
103
104 SELECT company, years, total_laid_off, ranking
105 FROM Company_Year_Rank
106 WHERE ranking <= 3
107 AND years IS NOT NULL
108 ORDER BY years ASC, total_laid_off DESC;
109
110
111 -- Rolling Total of Layoffs Per Month
112 • SELECT SUBSTRING(date,1,7) as dates, SUM(total_laid_off) AS total_laid_off
113 FROM layoffs_staging2
114 GROUP BY dates
115 ORDER BY dates ASC;
```

[Get the Github link](#)

This project aims to explore insights into **layoffs data from 3,626 entries**, focusing on total layoffs, percentage laid off, and funds raised. The data source comes from **Kaggle**, with information available from the declaration of COVID-19 as a pandemic on **March 11, 2020, to May 30, 2024**. The dataset includes **startup layoffs reported on Layoffs.fyi since COVID-19**.

Conducting **comprehensive data cleaning using MySQL** involved **identifying and removing duplicates, standardizing data, correcting errors, addressing null values, and eliminating unnecessary columns and rows**. **New tables were created** to streamline the dataset and ensure consistency and accuracy for analysis.

Exploratory Data Analysis (EDA) was performed to explore the dataset, identify trends, uncover patterns, and analyze key metrics such as total layoffs, percentage laid off, and funds raised. **Advanced SQL queries** were executed to determine companies with the **highest layoffs by year, calculate rolling totals** of layoffs per month, and group and summarize data by various dimensions, including company, location, industry, stage, and country.

Outliers and significant events were identified, providing insights into the impact of layoffs across different sectors and time periods.

By breaking it down into these aspects, **this project aims to provide a comprehensive picture of the layoffs data and offer strategic insights for understanding and addressing the impact of layoffs across various industries and time periods**.

COFFEE SHOP SALES

```
10
11 # % Revenue of Generated
12 -- Step 1
13 SELECT SUM(transaction_qty * unit_price) as Total_Revenue,
14 | store_location
15 FROM 'first-a0.kopi.kopii'
16 GROUP BY 2
17
18 -- Step 2 REVENUE GENERATED BY STORE LOCATION
19 SELECT ((SUM(transaction_qty * unit_price) / 1006.83) * 100) as Revenue_Generated,
20 | store_location
21 FROM 'first-a0.kopi.kopii'
22 GROUP BY 2
23
24 -- Step 3
25 SELECT SUM((total_revenue / 1006.83) * 100) as Revenue_Generated
26 FROM (
27 | SELECT SUM(transaction_qty * unit_price) as total_revenue
28 | FROM 'first-a0.kopi.kopii'
29 | ) as subquery
30
31 #Transaction by Each Day
32 SELECT SUM(transaction_qty * unit_price) as Total_Revenue,
33 | EXTRACT(DAYOFWEEK FROM transaction_date) Day,
34 | store_location
35 FROM 'first-a0.kopi.kopii'
```

```
[ ] 136443      5  Lower Manhattan      64      0.80      Flavours
    115939      3      Astoria      37      3.00      Coffee
    90364      8  Hell's Kitchen      25      2.20      Coffee
    110972      3      Astoria      56      2.55      Tea
    44171      3      Astoria      63      0.80      Flavours

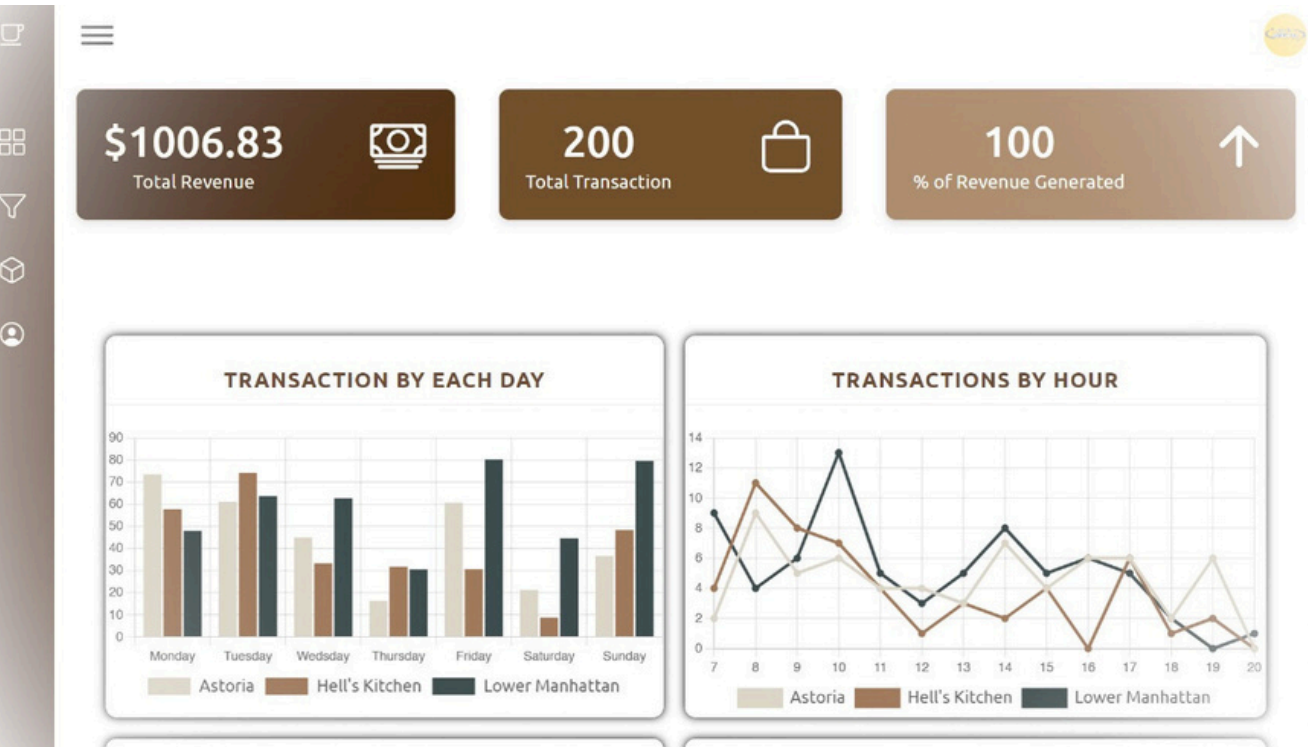
    product_type      product_detail
116605  Barista Espresso      Latte
119259      Scone      Jumbo Savory Scone
105265  Gourmet brewed coffee      Ethiopia Rg
29485   Barista Espresso      Latte
126885  Premium brewed coffee      Jamaican Coffee River Lg
...
136443  Regular syrup      Hazelnut syrup
115939  Barista Espresso      Espresso shot
90364   Organic brewed coffee      Brazilian Sm
110972  Brewed Chai tea      Spicy Eye Opener Chai Rg
44171   Regular syrup      Carmel syrup

[200 rows x 11 columns]

[ ] sampled_data.to_csv('sampled_data.csv', index=False)

print("Data yang telah di-sampling disimpan ke 'sampled_data.csv'")

Data yang telah di-sampling disimpan ke 'sampled_data.csv'
```



REACH ME OUT

10



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