



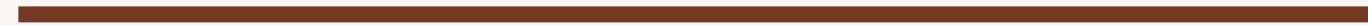
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# *Supermarket Sales Analysis Project*

May , 2025



# *Introduction*



In today's competitive retail market, understanding customer behavior and sales performance is essential. This project analyzes supermarket sales data to uncover insights that help improve decision-making and boost profitability.



# *Project Objectives*

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- To analyze and visualize supermarket sales performance.
- To identify key trends by gender, city, and product lines.
- To evaluate payment methods and customer preferences.
- To calculate total profit and tax by branch and category.

# Tools Used

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- **Power BI:** For creating interactive dashboards and visualizations.
- **Python (Pandas, Matplotlib, Seaborn):** For data cleaning, exploration, and preprocessing.





# *Data Analysis Insights*



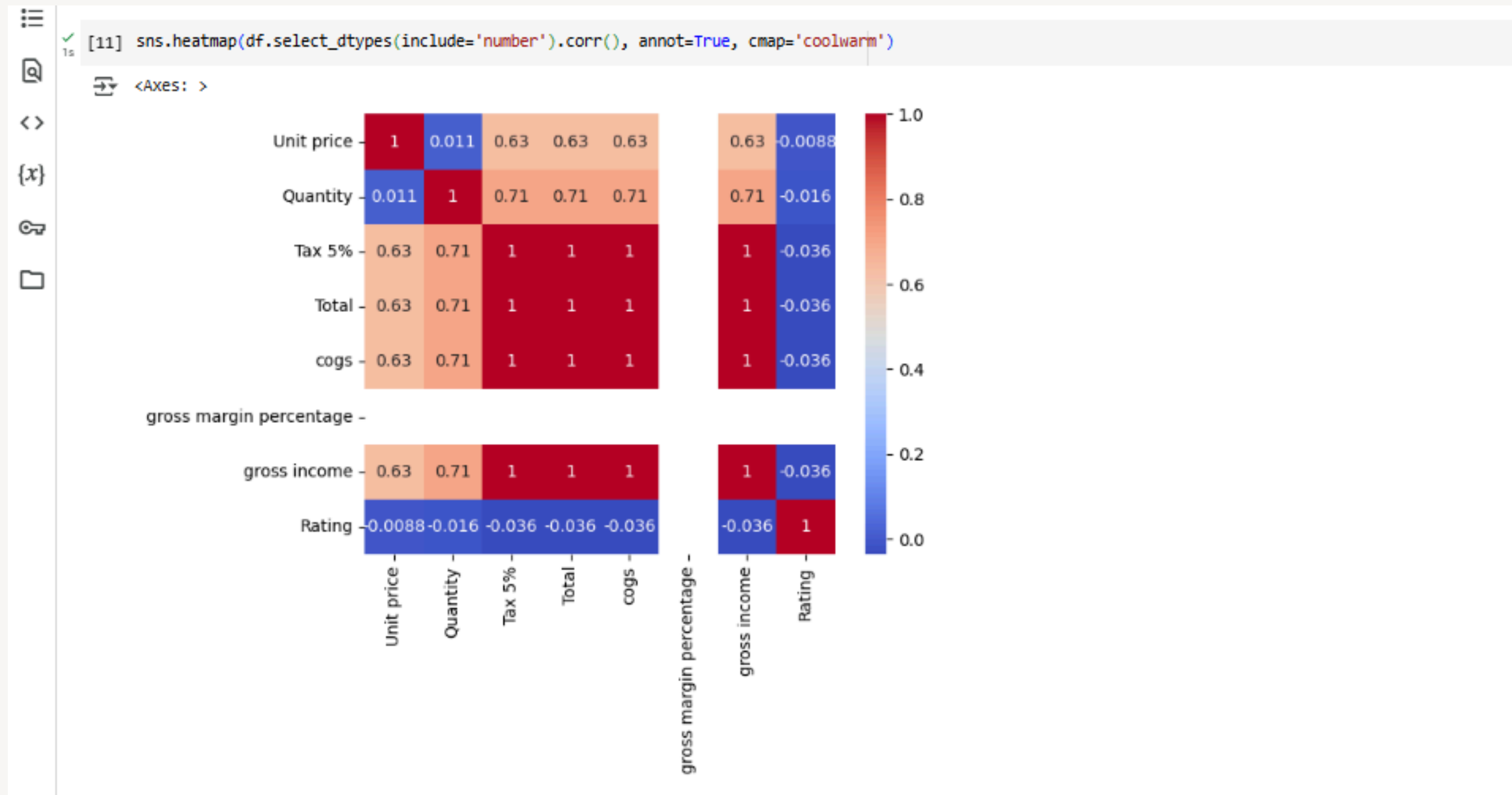
- Average Rating: 7
- Total Sales: 323K
- Total Tax: \$15K
- Top City by Sales: Naypyitaw
- Most Profitable Product Line: Food and Beverages
- Payment Methods: Mostly Credit Card and Ewallet
- Gender Distribution: Fairly balanced
- Branch C: Highest tax contributions

# Dashboard Overview



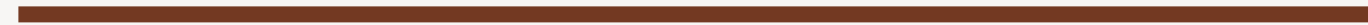
# Python Code Summary

Python was used to clean and preprocess the dataset using libraries like Pandas. Basic EDA was performed using Seaborn and Matplotlib to understand sales distribution and trends.





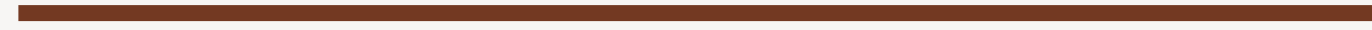
# Conclusion



The sales analysis provided valuable insights into consumer behavior, sales trends, and operational performance. By combining Power BI and Python, we were able to gain a deeper understanding of the data and present it in an intuitive and actionable format.







*Thank you*

