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# Data Analyst Project

*Analysis of Sales Performance and customer retention/Churn*

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**Alternative Slide Access**

Case study access link: [CLICK HERE](#)

# Case Overview

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Task 4: PowerBI dashboard development

# Analysis Framework Diagram



**Stacks: SQL, PowerBI, Python**

# Task 1: Data cleaning/reformatting and feature generation

## Data cleaning/reformatting

- Converted PurchaseDate to Date type, converted in the fact\_order\_table
- filled 100% of missing values in State column in the fact\_order\_table by extracting the state from the DeliveryLocation field
- Filled 70% of missing values in the LGA by extracting the LGA from the DeliveryLocation field
- Reformatted other columns as specified in the assessment doc



## New features, Assumptions

- PurchaseTime, generated from PurchaseDate field.
- Created a measure using DAX on powerBI for **New customers**, assuming new customers are customers that made their first purchase in Jan, 2025.
- Created a measure using DAX on PowerBI for **Returning Customers**, assuming returning customers are customers that made more than 1 purchase in Jan, 2025.
- Created a measure using DAX on PowerBI for **Churned Customers**, assuming churned customers are customers that have not made a purchase in the last 3 months.

# Task 1: SQL Query file

Three horizontal bars of increasing length, colored red, orange, and blue from top to bottom.

Kindly look it up in the github repo link below

Query file:

[https://github.com/ngwuprince/Assessment/blob/main/SQL\\_Solution\\_File.ipynb](https://github.com/ngwuprince/Assessment/blob/main/SQL_Solution_File.ipynb)

# Task 1: PowerBI dashboard file



Download from my github repo with the link:

[https://github.com/ngwuprince/Assessment/blob/main/new\\_assessment\\_solution.pbix](https://github.com/ngwuprince/Assessment/blob/main/new_assessment_solution.pbix)