ACCOUNTING ANALYTICS CAPSTONE

PONTIAC LAND



ABOUT

Pontiac Land is a private-held property developer, owner, and operator based in Singapore. The firm has a hospitality arm consisting 7 hotels across 3 countries, managed by 3 different operators.

I BUSINESS PROBLEM

Due to the various reporting formats from the different operators, Pontiac's hotel team has to consolidate and report monthly reporting figures and KPIs to management. With regards to reporting, the team currently face two key challenges: 1) Time Effectiveness; 2) Visibility & Interaction

PROJECT STATEMENT

Our group aims to improve the timeliness and readability of the Pontiac team's monthly reporting of its consolidated Singapore-based hotel figures, using data preparation and visualisation softwares to automate the process.

PROBLEM STATEMENTS

With regards to reporting, the team currently face two key challenges:

- Productivity
- Client currently presents data by screenshotting the excel tables into a PowerPoint presentation.
- Visibility and Interaction
- By reading the excel data alone, it is difficult to visualise large amounts of numbers to interpret large datasets for useful insights.

OUR APPROACH



- Data Preparation of 4 HTLS KEY INDICATORS for Dashboarding.
- Creation of Dashboards for Monthly Reporting.
- Exploration of Additional Insights for Analysis (i.e. Other KPIs).

CHALLENGES FACED

- PowerQuery takes a significant time to generate the cleaned data.
- PowerQuery requires basic coding knowledge to improve efficiencies in data cleaning.
- Google Looker Studio takes a significant time to load, especially when multiple users are working on the sheet concurrently.
- Google Looker Studio has various limitations in terms of functionality.
- Google Looker Studio does not provide sufficient information for troubleshooting when errors occur.

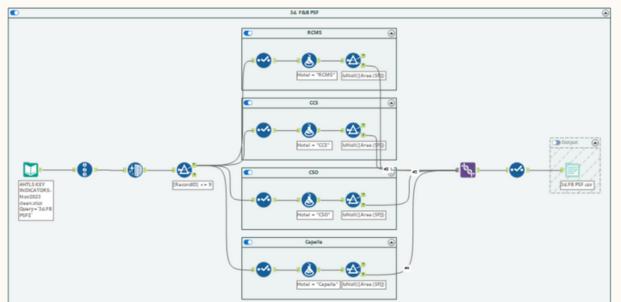
MOVING FORWARD

- Re-run the whole data cleaning and visualisation process using a new set of data from another FY to point out steps and changes that the client needs to take note of.
- Provide them advice on what we identified may be issues.
 (e.g. their naming of the columns to be standardised)

APPRECIATION

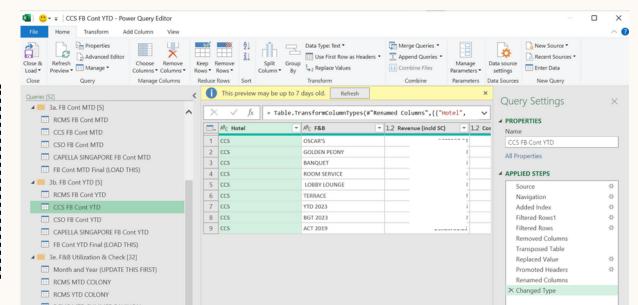
The joint struggles we faced helped to open up new perspectives and Prof Benjamin Lee and Prof Clarence Goh introduced us to the necessary tools for analysing figures, and have undoubtedly served as valuable learning points for each of our future career journey.

Alteryx <-----> Power Query



FOCUS APPROACH

- Ensure Data Cleaning is dynamic
- Sustainable for long term use (without change in data structure)
- Ease of Adoption



RCMS's Time Series Analysis (Sales Forecast)

onary time series with additive seasonal effects

ationary time series with multiplicative seasonal effects

Non-Stationary time series with additive seasonal effects Non-Stationary time series with multiplicative seasonal effect:

odelling seasonality with seasonal indices

Quadratic Trend Mode

ADDITIONAL INSIGHTS

Forecasted 2024 Sales

Additive

Non-Stationary

Seasonal Indice

Multiplicative

Non-Stationary

PONTIAC LAND

ffects (Method I: Lagged effects (Method 2: Past effects (Method 3: Average

OUR MEMBERS:



Chew Jun Qian



Fabian Seem

Ivan Seow



Quek Wei Jie



Tay Hui Ping



Trevor T

DATA VISUALISATION

