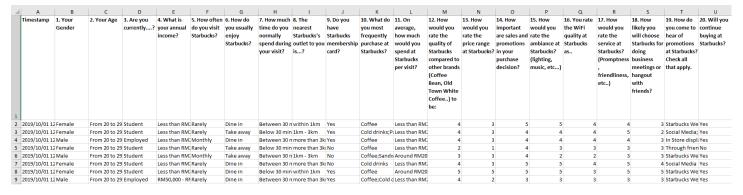
Starbucks Survey Analysis & Performance Dashboard

Created by: Dhruv Agarwal

Tech Stack: MS Excel, Tableau

Tableau Public link for dashboard: Click for live version of the dashboard.

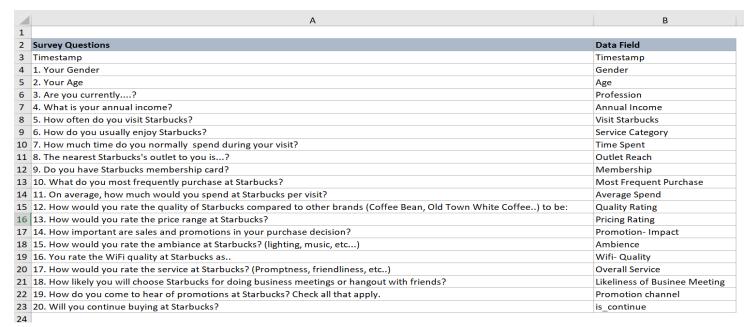
I worked with this dataset which composed of survey questions of over 100 respondents for their buying behavior at Starbucks Malaysian Ringgit (RM). The data was provided as a csv fille.



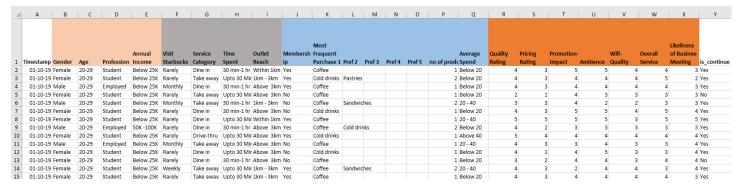
Screenshot of original data

The first step that I did was to check and clean the data in excel where I:

Changed the provided long column names to relevant data field



- Split required columns into multiple columns
- Checked data in each column for null, error or missing values.
- Fixed the errors in columns and cleaned data to make it usable.



Screenshot of Cleaned Data

I wanted the dashboard to be able to answer these questions:

- 1. How customers rate us on various ratings (price, quality, ambience etc).
- 2. Two most frequent product purchase.
- 3. Which promotion channel led them to visit Starbucks.
- 4. Time customers spend during their visit.
- 5. Average \$ spent.
- 6. How many have membership? And is there a correlation between having membership and average spend.
- 7. What percentage of customers would continue buying from us?

All these business questions were to be answered on the basis of:

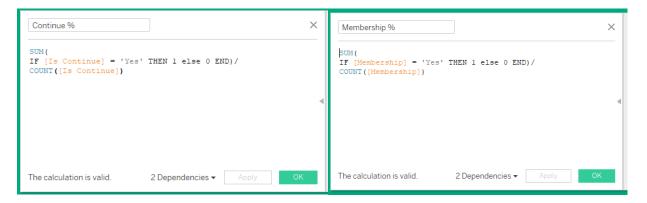
- Combined Level
- By Gender
- By Age group
- By Profession
- By Income

For the dashboard be able to answer all these questions with filters I made a dashboard design plan:

4 Dashboard Plan			
5			
6			
7 FILTERS	KPIS	KPI TYPE	CHARTS
AGE	Quality Rating	AVG	Visit Starbucks
PROFESSION	Pricing Rating	AVG	Service Category
0 ANNUAL INCOME	Ambience	AVG	Time Spent
1 GENDER	Wifi- Quality	AVG	Outlet Reach
2	Overall Service	AVG	Most Frequent Purchase 1
3	Likeliness of Businee Meeting	AVG	Average Spend
4	is_continue	%	Promotion channel 1
5	Membership	%	
6	Promotion- Impact	AVG	
7	Total Respondants	Count	
8			
9			

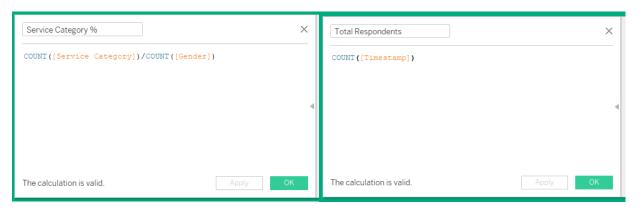
Screenshot of Dashboard Design Plan

Next step was to import the dataset into a BI tool for visualizing the data. I chose Tableau as it offers several benefits for analyzing and presenting data. After importing the data in Tableau I created some calculated fields to answer the business questions in simpler way that is easy to understand.



Continue % = % of customers likely to continue buying at Starbucks.

Membership % = % of customers who have membership card.



Service Category % = Customer's preferred mode of order.

Total Respondents = Number of customers who filled the survey.

Then I created appropriate visuals answering the business questions Last step was to put together the visuals (Bar chart, bubble chart, Kpi cards, tables, filters etc) into a well designed interactive dashboard that enables the user to easily answer business questions, generate actionable insights from data and monitor progress of implemented strategies.



Final Dashboard

Click for live version of the dashboard.

Link to original & cleaned dataset.

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<u>Full Data Portfolio</u>