Data Intake Report

Name: G2M Case Study Report date: 05 April 2023 Internship Batch: LISUM16

Version: 2.0

Data intake by: Adrian Baysa Data intake reviewer: N/A

Data storage location: https://github.com/agbaysa/dataglacier_week2

Tabular data details (for each dataset):

Cab

Cub	
Total number of observations	359,392
Total number of files	1 file
Total number of features	8 columns
Base format of the file	csv
Size of the data	21219244 bytes

City

Total number of observations	20
Total number of files	1
Total number of features	4 columns
Base format of the file	csv
Size of the data	759 bytes

Customer ID

Total number of observations	49171
Total number of files	1
Total number of features	5 columns
Base format of the file	csv
Size of the data	1051215 bytes

Transaction ID

Total number of observations	440098
Total number of files	1
Total number of features	4
Base format of the file	csv
Size of the data	8998194 bytes

Holidays (helper/additional csv)

Total number of observations	57
Total number of files	1
Total number of features	2 columns
Base format of the file	csv
Size of the data	1164 bytes

Weather (helper/additional csv)

Total number of observations	864
Total number of files	1
Total number of features	5 columns
Base format of the file	csv
Size of the data	28223 bytes

Combined File

Total number of observations	359,392
Total number of files	1
Total number of features	32 columns
Base format of the file	csv
Size of the data	21219244 bytes

Proposed Approach:

- Import using pandas
- Data Cleanup
 - Convert integers to date
 - o Join dataframes including data for US holidays and US weather
 - o Drop and rename columns
 - o Get Month and Weekday columns from Date of Travel
 - Include Additional Features
 - Income: Price Charged Cost of Trip
 - Price Per KM: Price Charged / KM Travelled
 - Cost per KM: Cost of Trip / KM Travelled
 - Income per KM: Income / KM Travelled
 - Profitable: 1 if profitable
 - Profit_perc: Income / Price Charged
 - Day of Week
 - Month
 - Year
 - Age Categories
 - Income_salary Categories
 - Market Penetration
 - City Size Categories
 - o Convert Population and User columns to numeric
 - Remove duplicate rows using drop_duplicates()
 - Validate data to ensure rows match the number of rows for Cab_Data.csv
 - Use pandas_profiling to profile the data

- Analyze
- Make Recommendations