

# Data Intake Report

Name: G2M insight for Cab Investment firm

Report date: 12 June 2024

Internship Batch:<Enter your batch code from Canvas course>

Version: 1.0

Data intake by: Armel Moumbe

Data intake reviewer: Armel Moumbe

Data storage location:

## Tabular data details: Cab\_Data

Total number of observations	359,392
Total number of files	1
Total number of features	7
Base format of the file	.csv
Size of the data	20.663 MB

## Tabular data details: Customer\_ID

Total number of observations	491,372
Total number of files	1
Total number of features	4
Base format of the file	.csv
Size of the data	1.027 MB etc>

## Tabular data details: Transaction\_ID

Total number of observations	359,392
Total number of files	1
Total number of features	3
Base format of the file	.csv
Size of the data	8.788 MB

## Tabular data details: City

Total number of observations	20
Total number of files	1
Total number of features	3
Base format of the file	.csv
Size of the data	1 KB

## Tabular data details: Master Data

Total number of observations	359,392
Total number of files	4
Total number of features	14
Base format of the file	.csv

<b>Size of the data</b>	41,942 MB
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### **Proposed Approach:**

The approach to validate and deduplicate the data was:

Step 1: Check for Duplicates

For each dataset, we use the duplicated() method to check for duplicate rows.

Step 2: Remove Duplicates

If any duplicates are found, we use the drop\_duplicates() method to remove them.

There are no missing values or duplicate records in any of the datasets.

### **Assumptions**

Identifiers:

Transaction ID in the Cab\_Data.csv is unique and correctly represents a single transaction.

Customer ID in the Customer\_ID.csv is unique and correctly represents a single customer.

Transaction ID in the Transaction\_ID.csv is unique and correctly maps to a customer.

City entry in the City.csv represents a unique city.

Date Format: The Date of Travel in Cab\_Data.csv was in the wrong format, which needs to be converted to a readable date format.

Data Completeness: All necessary fields are present in each dataset, and no crucial columns are missing. There are no missing values in columns critical for analysis, such as Transaction ID, Customer ID, Price Charged, Cost of Trip, Date of Travel, City, Gender, Age, and Income.

Consistency: The datasets are consistent in terms of the entities they represent. For example, the same Customer ID across different datasets refers to the same individual. The City names in Cab\_Data.csv match those in City.csv.

Accuracy: The financial values such as Price Charged and Cost of Trip are accurate and recorded correctly. The demographic information (e.g., Age, Income) for customers is accurate and reasonable.

Data Validity: The data provided spans from 31/01/2016 to 31/12/2018, and it is assumed to be representative of the actual cab usage trends during this period.

Financial Data: Price Charged and Cost of Trip are assumed to be recorded in the same currency (USD).

Demographic Data: The Age and Income columns in Customer\_ID.csv accurately reflect the customers' demographics.