To, The Manager, KPMG.

Subject – Data Quality Assessment of Sprocket's Data.

The dataset provided by Sprocket Central Pty Ltd had several Data Quality issues. The problem and the measures taken to solve them are mentioned below.

## **Transactions:**

Dimension	Features	Action
Accuracy		
Completeness	blanks in online_order     blanks in brand	Filter out blanks     Filter out blanks
Consistency		
Currency		
Relevancy	canceled order_status     gibberish product_first_sold_date	<ol> <li>Remove canceled orders</li> <li>Delete column</li> </ol>
Validity	1. plaintext list_price	1. Change to currency
Uniqueness		

## **Customer Demographics:**

Dimension	Features	Actions
Accuracy	1. DOB	Create Age column and remove ages like 174. Recommended to add an age column.
Completeness	blanks in job _title     n/a in job_industry	Keep it as it is.     Changed nothing.
Consistency	1. gender	convert male to M and convert female to F. Recommended to add a select button.
Currency	Yin deceased_indicator	Remove data of deceased customers.
Relevancy	1. gibberish in 'default' column	1. Delete column
Validity		
Uniqueness		

## **Customer Address:**

Dimension	Features	Actions
Accuracy		
Completeness		
Consistency	1. state	convert New South Wales to NSW and Victoria to VIC
Currency		
Relevancy		
Validity		
Uniqueness		

Solving these data quality issues will result in KPMG providing better analysis and Sprocket getting best use of their data.

Sincerely, Yusuf Nadim