Dear Sir/Madam,

We appreciate your confidence in us and also for furnishing us with the three datasets for analysis. Upon assessing the quality issues with the data presented, we identified some errors. This is presented in the table below for easy identification.

	TRANSACTION	CUSTOMER	CUSTOMER
	INANJACTION	DEMOGRAPHIC	ADDRESS
ACCURACY	1.Profit is	1. Some DOB are	ADDRESS
ACCURACY			
	not calculated	Inaccurate	
	2. Carra Dua di et ID/a	2. Age column is	
	2. Some Product ID's	missing.	
	are zero which is		
0014015751500	incorrect	4 1 1 1 1 1 1 1 1	4.0
COMPLETENESS	1.Customer Id	1.Job title has blanks	1.Customer Id is
	isincomplete (3501-	2. Customer Id is	incomplete
	5033)	incomplete	
	2.Online order has	3.Tenure has blanks	
	blanks in some		
	spaces.		
	3.Brand has blanks		
	4. Standard cost has		
	blanks		
CONSISTENCY		1.Gender is	1. State is
		inconsistent.	inconsistent
CURRENCY		1.Deceased	
		customers contains	
		the dead.	
RELEVANCY	1.Order Status	1.Default Column	
	cancelled not	not relevant	
	relevant		
VALIDITY	1.The List price did		
	not contain any		
	currency sign.		
	2.Product sold date		
	is in the wrong		
	format.		

Below are the explanations of the data quality issues discussed above. Recommendations and explanations have also been listed to assist in the corrections.

ACCURACY ISSUES

There is supposed to be a profit column under the **transactions** dataset. Some of the **product Id** are zero which is not supposed to be. Some **DOB** are also not correct for **Customer Demographic** and there is no age column. Which can make things clearer and easier.

Recommendations- Create a profit column in transactions for easy monetary analysis and correct the **product Id's** which are zero. Creating an age column will help check errors for the DOB.

COMPLETENESS

Customer Id's throughout the three datasets are inconsistent. **Customer address** has **customer id** values up to 4000 whiles **transactions** goes further to 5000.

Recommendations- The **customer id** datasets presented must be equal to each other throughout the 3 datasets. This will give a more accurate analysis. Be sure to check the **customer id's** within the 3 datasets. The blanks in the **online order, brand** and **standard cost** in the transaction dataset need to be filled. The blanks in the **Job title** and **tenure** should also be filled under the **customer demographic**.

CONSISTENCY

The words used for the **gender** under the **customer demographic** is inconsistent (female, male,u,m and f). For the **state** under the **customer address**, sometimes the short contraction is used while others use the full names.

Recommendation- under the **gender** column, either use the full words like female and male or choose the contraction which is M or F. They should not be mixed, its either the contraction form is used or the full words are used.

Under the **state** column too, either the full names of the states are used or the contraction form is used throughout.

CURRENCY

Under the **deceased** column, the Y' must be removed because they are dead and are not current customers.

Recommendation: once the status of customers are updated that they dead, their information needs to be removed to give an accurate information.

RELEVANCY

There is no comprehension in the **default** column in the **customer demographic** and needs to be removed. The cancelled **order status** under the transaction also needs to be deleted as it does not help analysis in anyway.

Recommendation: The cancelled **order status** needs to be deleted and the entire **default column** needs to be deleted.

VALIDITY

Turn the **product_first_sold_date** to a real date and add the currency sign to the list price. This will assist in easy handling of the data.

Recommendation- Add the currency sign to the list price and make a real date out of the product_first_sold_date.

To conclude, the recommendations suggested will assist in improving the data quality issues identified. This will increase the quality of the analysis which will give the maximum benefit to your company.

Do not hesitate to contact us should you have questions on the data of	quality issues i	dentified
or recommendations.		

Sincerely, Barbara Zen.