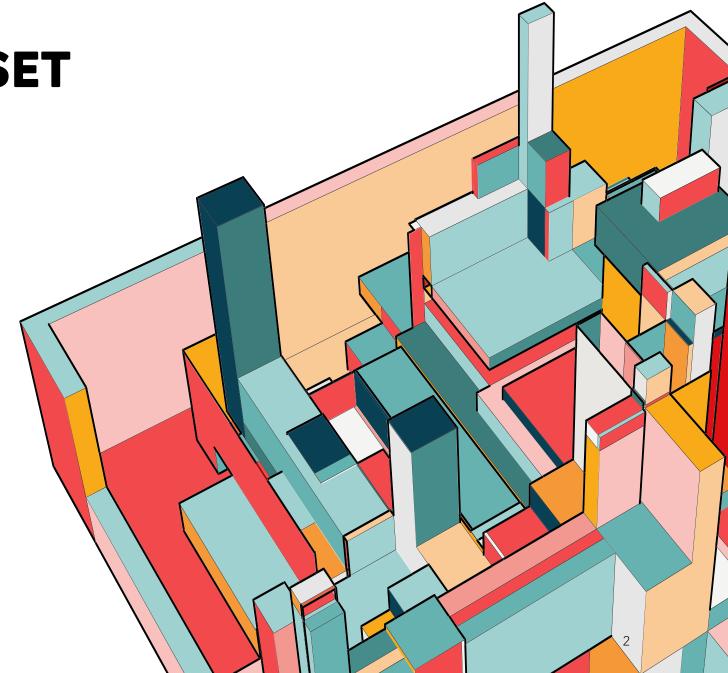


ABOUT THE DATASET

Credit Card Customers

This dataset is composed of bank customer credit card data, used to conduct churn analysis.

- To predict which customers are most-likely to leave the bank
- Gives the bank a better idea of how to serve their customers



MY SOLUTION

Step 1

Strategize the layout of data into 3^{rd} NF.

Step 2

Create the necessary tables and populate data into the tables.

Step 3

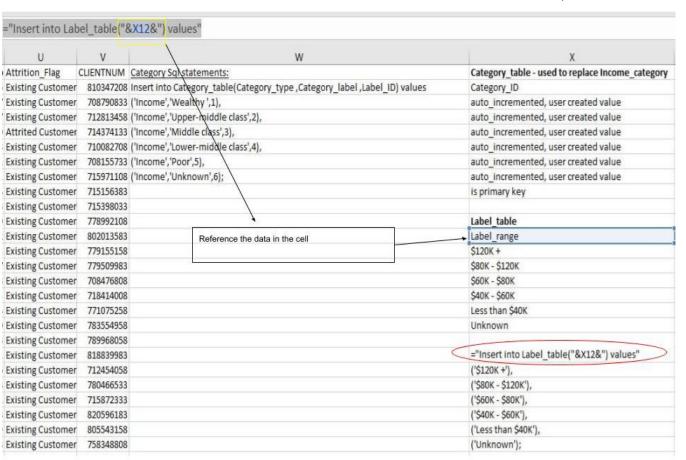
Form the needed relationships between the data.

X	Y	Z	AA
Category_table - used to replace Income_category			
Category_ID	Category_type	Category_label	Label_ID
auto_incremented, user created value	Income	Wealthy	is a forigen key to label_table
auto_incremented, user created value	Income	Upper-middle class	
auto_incremented, user created value	Income	Middle class	
auto_incremented, user created value	Income	Lower-middle class	
auto_incremented, user created value	Income	Poor	
auto_incremented, user created value	Income	Unknown	
is primary key			
Label_table			
Label_range	Label_ID		
\$120K +	auto_incremented, user created value	2	
\$80K - \$120K	auto_incremented, user created value		
\$60K - \$80K	auto_incremented, user created value		
\$40K - \$60K	auto_incremented, user created value		
Less than \$40K	auto_incremented, user created value		
Unknown	auto_incremented, user created value	is primary key	
sql statements:			
Insert into Label_table(Label_range) values			
('\$120K +'),			
('\$80K - \$120K'),			
('\$60K - \$80K'),			
('\$40K - \$60K'),			
('Less than \$40K'),			
('Unknown');			

CODE EXAMPLES

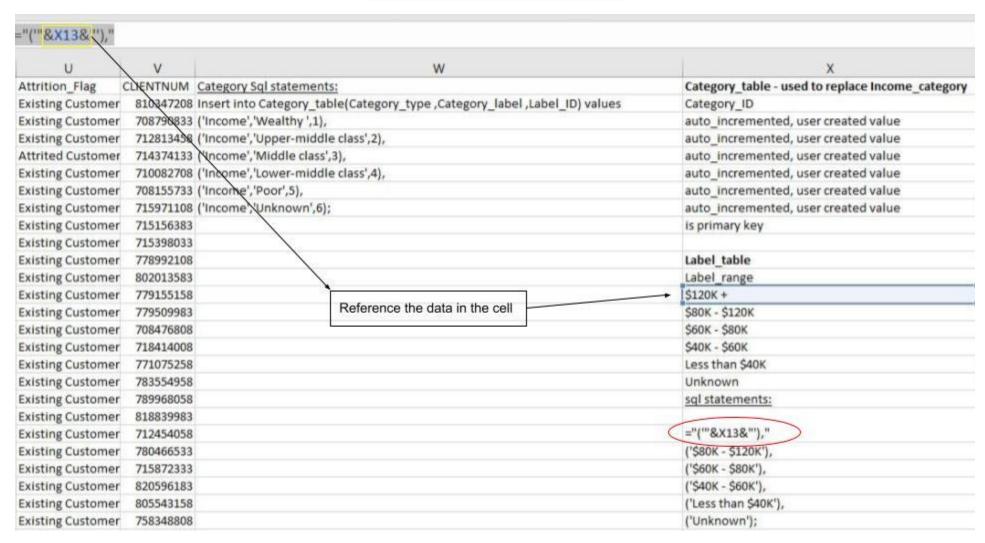
Excel concatation

I used a form of concatenation in excel to formulate SQL queries.



CODE EXAMPLES

Excel concatation



USE CASES OF DATA

Customer_Age	Dependent_count	Category_label	CLIENTNUM
26	2	Unknown	716800908
41	3	Lower-middle class	712133508
38	1	Upper-middle class	721514883
37	3	Lower-middle class	712827258
43	5	Wealthy	712971708
35	1	Wealthy	789541458
48	5	Lower-middle class	721084833
39	0	Lower-middle class	812979408
65	0	Lower-middle class	720769533
57	2	Wealthy	715393908
47	2	Wealthy	772457583
46	3	Wealthy	715517733



This query shows some customer data sorted by the longest months of customer inactivity. Data like this can help a bank to make informed marketing decisions.