

Consider the dataset of loangrant.csv provided to you at GCR and do the following tasks.

1. By considering the data dictionary file, do exploratory data analysis on the data (i.e. Histogram, Scatter plots, Boxplots, Outlier detection, missing values identification etc).
2. Find the missing values of every attribute and replace it with the appropriate central tendency. However, the replacement with central should be justified.
3. Find the outliers using boxplot and by employing the outliers formula (quartiles and IQR) and report how many percentage of data having outliers. Moreover, you need to replace outliers with the appropriate central tendency (may be median).
4. Do perform correlation between the attributes and identify the highly correlated attributes i.e. 0.6 or higher.
5. The 'Year in current job' need to be in replaced using the following highlighted format

The screenshot shows a data transformation tool interface. On the left, the 'Properties' panel is visible, showing the 'Group Categorical Values' section. The 'Selected columns' list contains 'Years in current job'. The 'Output mode' is set to 'Append'. The 'Default level name' is 'Test'. The 'New number of levels' is set to 6. The 'Name of new level 1' is '<year'. The 'Comma-separated list of old l...' is '< 1 year, n/a'. The main workspace shows three columns of configuration for new levels, with red boxes highlighting the specific values entered for each level.

Level Name	Comma-separated list of old l...
Name of new level 1	< 1 year, n/a
Name of new level 2	two - four years
Name of new level 3	five - seven years
Name of new level 4	eight - nine years
Name of new level 5	above 10 years
Name of new level 6	10+ years

6. Write a description of every line of code and use snapshot of graphs and its description along with its associated code snippet in a file and a single PDF file need to be upload at GCR.
7. Do not forget to upload Jupiter notebook file with the name of your Student ID.
8. Prepare a 10 minutes video presentation by switching on the camera at zoom (female students are exempted from switching on the camera). Share the screen and explain all the tasks you have done during the pre-processing of the dataset. The video along with other files need to be submitted at GCR on or before the due date/time.