Lab 2- Data Analysis Process

Perform the following Data Analysis Process

I. Change the layout of the data set

1. Gather Columns into rows
2. Spread rows into columns
3. Append rows of Data Frames
4. Append columns of Data Frames
5. Order rows by values of a column
6. Order rows by values of a column
7. Sort the index of a Data Frame
8. Reset index of Data Frame to row numbers, moving index to columns.
9. Drop columns from Data Frame

Subset observations

1. Extract rows that meet logical criteria.
2. Remove duplicate rows (only considers columns)
3. Select first n rows, Select last n rows
4. Select single column with specific name.
5. Select Multiple column with specific name.

II. Handling Missing Data

1. Drop rows with any column having NA/null data.
2. Replace all NA/null data with value.

III. Summarize data

IV. Group Data

Make new Columns

V. Combine Data Sets