LECTURE 5

More on Pandas

Pivot, GroupBy, Merge

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Using Pivot



Using Pivot in Pandas to aggregate

- You can calculate the counts on a specific numerical column
 - But you might get some un-expected NaN
 - Look at the baby names and aggregating by Sex across names.
- Debugging in VS Code with jupyter lab files?
 - Yes: with print statements
- Can I use something else better for real time debugging?
 - Yes: You can use other python IDE such as PyCharm



Using GroupBy

- We can do the similar operations as Pivot using GroupBy
 - We need to be careful as well here.
- We need to specify which columns to focus on, otherwise python gets confused
 - Esp with assuming data types
- Need to evaluate the data types, at each step of the data break down.
 - Compare the columns in bn_agg_df.columns[[0]].tolist()
 - Compared to df_result = grouped['Sales'].agg([showcount])



Merge of Dataframe

- Two different ways to do it
 - o <dataframe>.merge(dataframe2)
 - o pd.merge()
- Left, right, inner, outer, cross



Plotting with Dataframe

- Two different ways to do it
 - <dataframe>.plot part of pandas
 - o plt.plot() using matplotlib.
- Left, right, inner, outer, cross

