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# === binningTED.ipynb ===

#%%
# Import Dependencies
import pandas as pd


#%%
# Create a path to the csv and read it into a Pandas DataFrame
csv_path = "Resources/ted_talks.csv"
ted_df = pd.read_csv(csv_path)

ted_df.head()


#%%
# Figure out the minimum and maximum views for a TED Talk
print(ted_df["views"].max())
print(ted_df["views"].min())


#%%
# Create bins in which to place values based upon TED Talk views
bins = [0, 200000, 400000, 600000, 800000, 1000000,
        2000000, 3000000, 4000000, 5000000, 50000000]

# Create labels for these bins
group_labels = ["0 to 200k", "200k to 400k", "400k to 600k", "600k to 800k", "800k to
1mil", "1mil to 2mil", "2mil to 3mil", "3mil to 4mil", "4mil to 5mil", "5mil to 50mil"]


#%%
# Slice the data and place it into bins
pd.cut(ted_df["views"], bins, labels=group_labels).head()


#%%
# Place the data series into a new column inside of the DataFrame
ted_df["View Group"] = pd.cut(ted_df["views"], bins, labels=group_labels)
ted_df.head()


#%%
# Create a GroupBy object based upon "View Group"
ted_group = ted_df.groupby("View Group")

# Find how many rows fall into each bin
print(ted_group["comments"].count())

# Get the average of each column within the GroupBy object
ted_group[["comments", "duration", "languages"]].mean()
```