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# Import necessary libraries

import pandas as pd

# Load the Titanic dataset (you can replace this with your dataset)

titanic_df =
pd.read_csv('https://raw.githubusercontent.com/datasciencedojo/datasets/master/titanic.csv')

# Display first few rows of the dataset

print("First few rows of the Titanic dataset:")

print(titanic_df.head())

# 1. Provide summary statistics grouped by a categorical variable

# Let's use the 'Pclass' (passenger class) as the categorical variable and 'Age' as the quantitative
variable

grouped_stats = titanic_df.groupby('Pclass')['Age'].describe()

# Display the summary statistics

print("\nSummary statistics of Age grouped by Pclass:")

print(grouped_stats)

# 2. Create a list that contains a numeric value for each response to the categorical variable

# In this case, create a list of mean ages for each passenger class

mean_age_by_class = titanic_df.groupby('Pclass')['Age'].mean().tolist()

# Display the list of mean ages for each passenger class

print("\nMean Age for each Passenger Class:")

print(mean_age_by_class)
```