

Super Bowl 52 Big Game Census Data

Visualization

```
import pandas as pd
import matplotlib.pyplot as plt

# Step 1: Data Collection and Cleaning
# Load Super Bowl 52 player rosters, birthplace data, and state population
data into pandas DataFrames

# Assume df_rosters, df_birthplace, df_population are DataFrames loaded with
the respective data

# Step 2: Data Analysis
# Analyze the data to find interesting insights and fun facts
# For example, calculate the percentage of players from each state and compare
it with the state population

all_places = pd.read_excel('All Places Census 2016 Population Estimates.xlsx')
allStates = pd.read_excel('All states Census 2017 Population Estimates.xlsx')
big_Game = pd.read_excel('Big Game Census data.xlsx')

state_player_counts = all_places['Player Birth State'].value_counts()
state_population = allStates.groupby('State')['Population'].sum()

# Calculate the percentage of players from each state
state_player_percentage = (state_player_counts / state_population) * 100

# Step 3: Data Visualization
# Create a bar chart to visualize the percentage of players from each state

plt.figure(figsize=(12, 6))
state_player_percentage.plot(kind='bar')
plt.xlabel('State')
plt.ylabel('Percentage of Players')
plt.title('Percentage of Super Bowl 52 Players by State')
plt.xticks(rotation=45)
plt.tight_layout()
plt.show()
```