Group Project #1

Team #2:

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**Goal:**

As a team we have decided to pick a US city to move to and settle down. Our goal is to determine which of a select 9 US cities is the best

**Main Question:**

What is the best US to live in based on several predetermined variables.

City List:

Atlanta

Austin

Chicago

Denver

Los Angelos

Nashville

New York

San Diego

Seattle (probably Drop)

Tampa

**Hypothesis:**

Nashville is the most desired city to live in based on our criteria.

**Criteria:**

**Major Crime Rate for each city**

Data Set: United Stats Crime Rates By city population/crime\_250\_plus – Kaggle.com

[United States Crime Rates By City Population (kaggle.com)](https://www.kaggle.com/datasets/kabhishm/united-states-crime-rates-by-city-population?select=crime_250_plus.csv)

**Urban Connectivity**: This will include the city walk score, transit score and bike score for each city

Data Set: Urban Connectivity – Kaggle.com

[US Cities Urban Connectivity (kaggle.com)](https://www.kaggle.com/datasets/vellis1/us-cities-urban-connectivity)

**Cost of living:** This will include housing cost and food cost for each city

Data Set: Cost of living in the US - Kaggle.com

[Cost of Living in the US (kaggle.com)](https://www.kaggle.com/datasets/wayneitprohatter/cost-of-living-in-the-us)

**Population Growth:** The population growth of the city from 2020-2024

Data Set: Population of all US cities 2025 – Kaggle.com

[Population of all US Cities 2024 (kaggle.com)](https://www.kaggle.com/datasets/dataanalyst001/population-of-all-us-cities-2024)

**Analysis:**

Using these variables, we will create a number of different Bar and scatter plots along with regression to visualize our analysis. Our regression statistics will be calculated based on population growth compared to all of our other variables for each city

Sub Hypothesis:

1. As the population increases in the city the major crime rate increases for the city
2. As the population increases in the city the walk score for the city increases
3. As the population increases in the city the transit score decreases for the city
4. As the population increases in the city the bike score increases for the city
5. As the population increases in the city the housing cost grows for the city
6. As the population increases in the city the food cost increases for the city

Each variable will given a weighted average by the team to compile a city score to determine which city is the best location to live.

Division of Labor:

Vraj – Population

Ashely – Cost of Living

Sean – Crime

Ben – Urban Connectivity