**Interactive Map Application Instructions**

**Prerequisites:**

1. Ensure the necessary files are in place, including:

• The GeoJSON file for census tracts.

• The merged CSV file containing the census, crime, and educational attainment data.

• The JavaScript, Python, and HTML files provided.

2. Verify the file paths in your application, particularly in the app.py script and the JavaScript code, to ensure the data is correctly loaded.

**Running the Application:**

1. Open a terminal and navigate to the directory containing the app.py file.

2. Run the command: python3 app.py

3. The application will start, and you will see a URL in the terminal, typically http://127.0.0.1:5000.

4. Open the URL in your preferred web browser.

**Using the Application:**

1. Upon loading the map, hover over a tract to see it highlighted in dark blue. The highlight will revert to light blue when the cursor moves away.

2. Click on any tract to bring up a selection window.

3. In the selection window, choose one of the following:

• “Crime Data” to view crime-related statistics such as arson, burglary, and more.

• “Census Data” to explore demographic details like total population and racial distribution.

• “Educational Attainment” to examine education levels among different racial groups.

4. After selecting an option, the corresponding information will be displayed in a pop-up window.

5. The selected tract will change color:

• Red for crime data.

• Blue for census data.

• Green for educational attainment.

6. Close the pop-up window by clicking the “Close” button or select another tract to update the information.

**Note:**

• Ensure all file paths in the app.py and JavaScript files are correctly set before running the application.

• If the application fails to start due to a port conflict, try stopping other services or running the app on a different port.

Enjoy exploring the data!