Final Project Rubric

Below is a rubric that breaks down student projects into their core components and assigns points based on the effort put forth by each student to work through their topics, as well as their response to and the incorporation of feedback.

Project Proposals (10 Points Total)

1. Final Topic & Proposal (10 Points)

- **Project Proposal (5 Points):** Successfully filled in the missing pieces to the assignment prompt by using the previous group prompt as a template.
- **Datasets & Queries (5 Points):** Proposes the use of at least 5 vector layers and 2 raster images, as well as proposes at least 3 spatial queries.

Due Friday, April 5 @ 5 pm

Assignment 1 – Data Acquisition, Processing, & Database Setup (10 Points Total)

1. Find and Process Geospatial Data (10 Points)

- **Data Acquisition (5 Points):** Successfully obtained and processed the necessary data to address their proposed queries.
- **Data Processing (5 Points):** Shared steps on GitHub that includes additional software needs and detailed descriptions of their data attributes and sources.

Due Friday, April 12 @ 5 pm

Assignment 2 – Import Spatial Data & Normalize Tables (20 Points Total)

1. Data Importation (10 Points)

- **Successful Import (5 Points):** Data correctly imported into PostgreSQL tables without loss or corruption.
- **Efficiency (5 Points):** Utilizing efficient methods for importing large datasets or complex data types.

2. Data Normalization (10 Points)

- **Normalization Process (5 Points):** Correct application of normalization principles (1NF to 4NF as applicable).
- **Schema Refinement (5 Points):** Thoughtful consideration and implementation of schema refinements during normalization to enhance data integrity and query performance.

Due Friday, April 19 @ 5 pm

Assignment 3 – Spatial Queries & Presentation (70 Points Total)

1. Spatial Analysis (20 Points)

- **Spatial Query Development (20 Points):** Insightful analysis related to the prompts.

2. Presentation and Reporting (20 Points)

- **Clarity and Comprehensiveness (10 Points):** Clear and comprehensive presentation of findings, supported by maps and visualizations.
- **Innovative Solutions and Recommendations (10 Points):** Creativity and practicality in proposing solutions to identified issues and next steps.

Due Thursday, April 25 at the end of Lab (10:15 am)

3. Final GitHub Repo & README Organization (30 Points)

- **Delivery of Results (10 Points):** Results from the spatial query are clearly and effectively displayed on GitHub.
- **SQL (and other) Scripts & Documentation (10 Points):** Detailed overview and documentation of the analysis provided in GitHub.
- **Clear and Effective Processing Steps (10 Points):** Steps for acquiring data, inspecting and processing data, providing working links to data sources, and developing a comprehensive schema (including normalization if needed) required for a novice to replicate their project.

Due Friday, May 3 at 5 pm

Total: 110 Points

NO LATE SUBMISSIONS ACCEPTED AFTER MAY 3 -- Plan accordingly.
