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Spatial Database Design

The Effects of Polling Location Accessibility

Dataset Overview

The primary dataset utilized for this analysis comprises three main components: Polling Place data, Voter Turnout data and Voter Registration data for the 2016 General Election. These datasets are sourced from reputable governmental agencies and were collected for the purpose of conducting an in-depth spatial analysis to discern patterns and correlations related to polling place accessibility and voter turnout.

Source and Purpose:

Polling Place Dataset

This dataset is provided by the Philadelphia City Commissioners. It provides comprehensive information about polling places, including their geographical coordinates (point geometry), division, precinct, ward, and zip code. It also includes accessibility codes and parking facilities codes which denote the accessibility of both the polling places and the parking provided. The dataset aims to facilitate the efficient administration of elections by ensuring that polling places are equipped with adequate resources and accessibility features.

Voter Turnout Dataset

The Voter Turnout data was procured from the Philadelphia City Commissioners. It contains pertinent details about voter participation, including precinct information, political party affiliation, and the total count of voters per candidate. This dataset was gathered with the objective of evaluating the effectiveness of polling place allocation and accessibility in influencing voter turnout.

Voter Registration Dataset

The Voter Registration data was procured from the Philadelphia City Commissioners. It includes information on the Philadelphia voter registrants per precinct, categorizing by race, political party, and gender. This dataset allows for voter turnout percentage calculations, which will be used for further analysis of the effect of polling location accessibility.