House Facility Searching System

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Purpose

This project provides an application for users who wants to buy a house. The users can not only find a house but also the facilities around the house, such as schools, hospital, stores, etc. It can help users to find the dream house faster.





Workflow

- 1. Create database use PjAdmin4 and SQL
- 2. Extract the database from PjAdmin4 with DB browser
- 3. Put the data into Shiny app folders
- 4. Use Shiny app to implement applications with R

Data Design

- Data is collected from redfin and data. World
- The house data covers some attributes, such as number of bedrooms and bathrooms, price, address, longitude, latitude, etc.
- The facility data covers the school, hospital, store, gym, etc.



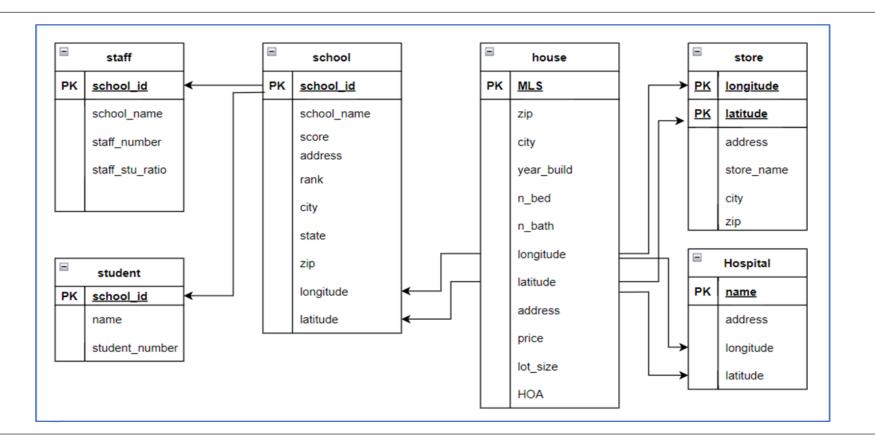


Primary Key & Schema

- The tables are:
- house(with primary key: MLS)
- hospital(with primary key: name)
- store(with primary key: longitude, latitude)
- school(with primary key: school_id)
- student(with primary key: school_id)
- staff(with primary key: school_id)

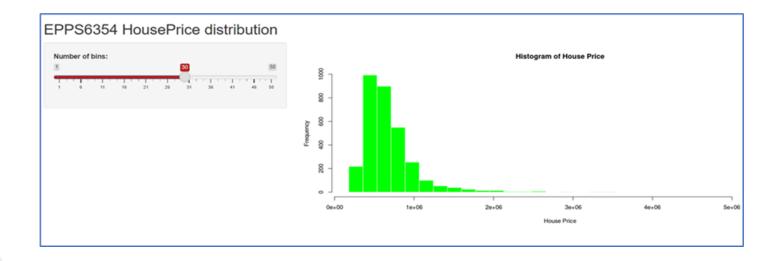






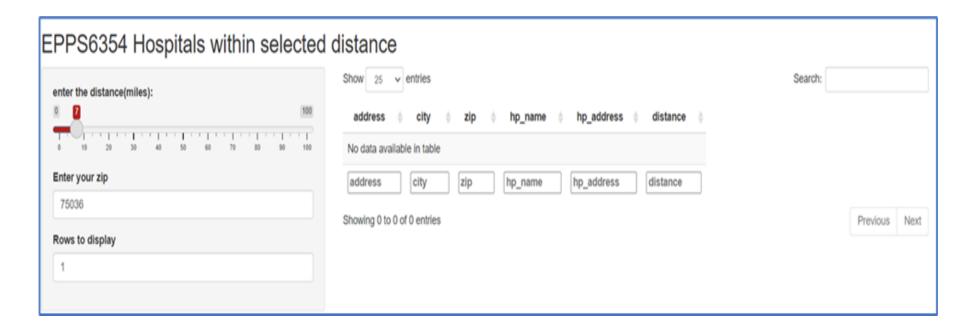


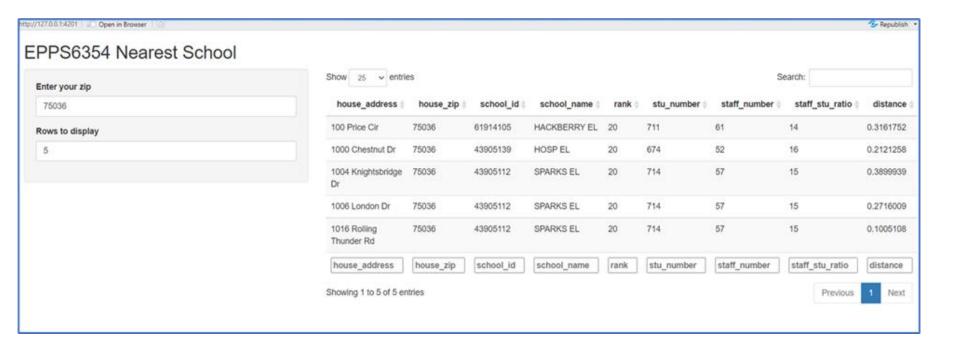
Applications













Shiny app link

- 1. https://xiaoyanhouston2.shinyapps.io/house_store/
- 2. https://xiaoyanhouston2.shinyapps.io/houseprice_frequency/
- 3. https://xiaoyanhouston2.shinyapps.io/house_hospital/
- 4. https://xiaoyanhouston2.shinyapps.io/house_school/

Thank You!