House Searching System

EPPS 6354

Xiaoyan Zhang

Contents

- ➢ Purpose
- ➢ Workflow
- ➢ Data Design
- ➢ Schema
- ➢ Applications

Purpose

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.

Data Design

	ADDRESS	CITY	ZIP	PRICE	BEDS	BATHS	LOCATION	SQRF	LOTSIZE	YEAR_BUI	Price_per_	HOA_MON	MLS	LATITUDE	LONGITUDE
1															
2	3768 Shad	Frisco	75033	889900	5	4.5	Northwoo	3970	6534	2022	224	79	20240518	33.18935	-96.8554
3	513 Mean	Frisco	75078	930996	4	4.5	Estates at	3715	10454	2022	251	54	20038990	33.20972	-96.887
4	3582 Rusti	Frisco	75033	948175	5	4.5	Northwoo	3353	10890	2021	283	79	14746798	33.18873	-96.8571
5	13850 DU	Frisco	75033	475000	4	3.5	Grayhawk	2775	7362	2006	171	50	14740433	33.19331	-96.875
6	16138 Cre	Frisco	75033	829900	5	4.5	Hollyhock	3757	8276	2021	221	175	14682228	33.21232	-96.8686
7	15649 Car	Frisco	75033	917755	5	4.5	Hollyhock	3688		2022	249	175	14759808	33.20804	-96.8664
8	2528 Hors	Frisco	75033	794400	4	3.5	Hollyhock	3562	8276	2021	223	175	14701452	33.21671	-96.8668
9	3612 Shad	Frisco	75033	1016400	5	4.5	Northwoo	3970	10890	2021	256	79	20056471	33.18929	-96.857
10	3472 Rusti	Frisco	75033	959900	5	4.5	Northwoo	3353	6882	2021	286	79	20005116	33.1882	-96.8578
11	1806 Even	Frisco	75033	835000	4	4	Hollyhock	3132	7013	2016	267	175	20029827	33.21552	-96.8739
12	1877 Even	Frisco	75033	550000	4	4	Hollyhock	3153	7013	2017	174	175	14514669	33.21501	-96.8732

Data Design

	school_id	school_na	score	address	rank	city	state	zip_code	longitude	latitude
1										
2	1902001	CAYUGA H	100	17750 N U	20	Tennessee	TX	75861	-95.924	31.92156
3	1902041	CAYUGA M	100	17750 N U	20	Tennessee	TX	75861	-95.924	31.92156
4	1902103	CAYUGA E	100	17750 N U	20	Tennessee	TX	75861	-95.924	31.92156
5	1903001	ELKHART H	100	9002 S Sta	20	Elkhart	TX	75839	-95.5806	31.65562
6	1903002	ELKHART D	100	420 W Pal	20	Palestine	TX	75801	-95.6383	31.76999
7	1903041	ELKHART M	100	301 E Park	20	Elkhart	TX	75839	-95.5789	31.62666
8	1903101	ELKHART E	100	301 E Park	20	Elkhart	TX	75839	-95.5789	31.62666
9	1903102	ELKHART I	100	301 E Park	20	Elkhart	TX	75839	-95.5789	31.62666
10	1904001	FRANKSTO	99.55	100 W Per	20	Frankston	TX	75763	-95.5022	32.06116
11	1904041	FRANKSTO	99.55	100 W Per	20	Frankston	TX	75763	-95.5022	32.06116
12	1904102	FRANKSTO	99.55	100 W Per	20	Frankston	TX	75763	-95.5022	32.06116

Schema
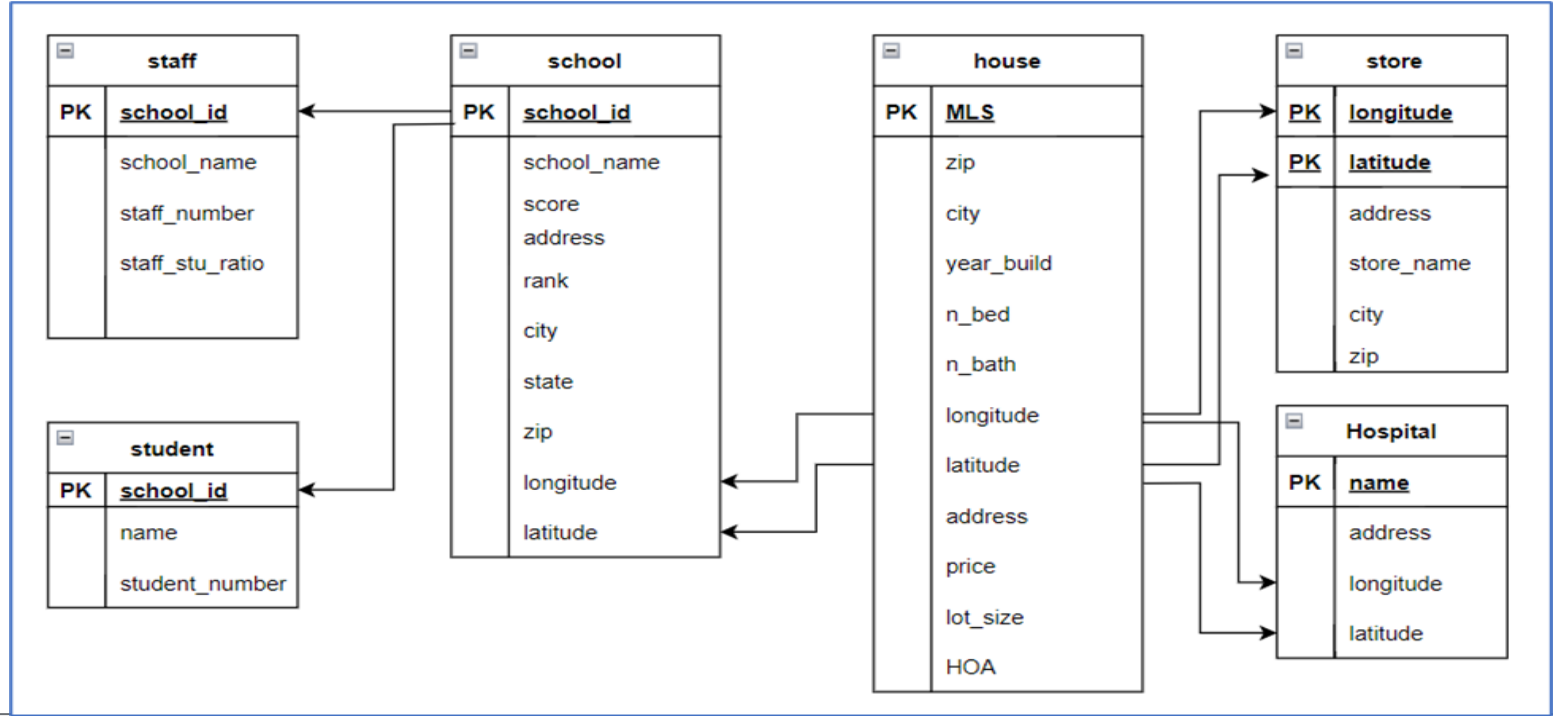
Applications
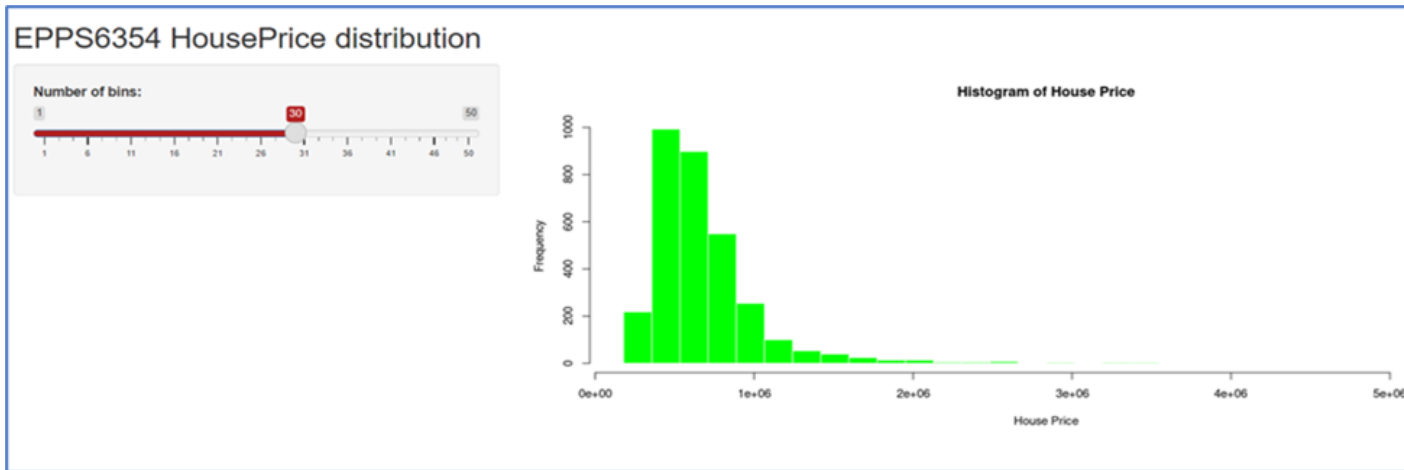
EPPS6354 Hospitals within selected distance

enter the distance(miles):

0 | 7 | 100

0 10 20 30 40 50 60 70 80 90 100

Enter your zip

75036

Rows to display

1

Show | 25 ∨ | entries

Search: _____

address	city	zip	hp_name	hp_address	distance
No data available in table					

address	city	zip	hp_name	hp_address	distance

Showing 0 to 0 of 0 entries

Previous | Next

EPPS6354 Stores within selected distance

enter the distance(miles):

0 | 5 | 100

0 10 20 30 40 50 60 70 80 90 100

Enter your zip

75036

Rows to display

1

Show [25 ▼] entries   Search: [   ]

address		city		zip		st_name		st_address		distance	
100 Price Cir		Hackberry		75036		costco		11220 DALLAS PKWY		4.728803	
address		city		zip		st_name		st_address		distance	

Showing 1 to 1 of 1 entries   Previous **1** Next

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!