Project Proposal

Houston’s Oil History

# Group

David Nassif  
Phillip Wirth  
Michael Dowlin

# Datasets

|  |  |  |
| --- | --- | --- |
| Description | Method | URL |
| Oil prices by year | Web-scraping |  |
| Houston population by year | Web-scraping | <http://worldpopulationreview.com/us-cities/houston-population/> |
| Greater Houston population by year | csv | <https://fred.stlouisfed.org/series/HTNPOP> |
| Houston housing prices by year | csv | <https://fred.stlouisfed.org/series/ATNHPIUS26420Q> |
| Houston non-farm employee population by year | csv | <https://fred.stlouisfed.org/series/HOUS448NA> |
| Houston energy employee population by year | csv | <https://fred.stlouisfed.org/series/SMU48264201021100001SA> |

# Possible Usefulness

Find the correlation of Houston real estate, employment and housing prices. There may be some interesting relationships between significant changes in oil prices and employment (salaries) and real estate in the greater Houston area.

# Database Type: Relational

All of the datasets being used have structures that are consistent with a relational model. The aggregation period (year) is present in all sets, and makes for an ideal key. We decided to use a relational model to store and analyze the data.