**Jainabou Barry Danfa**

**SI 507 Project Proposal**

**Data Collection:**

1. **Create database for US household income stats** 
   1. Income.db

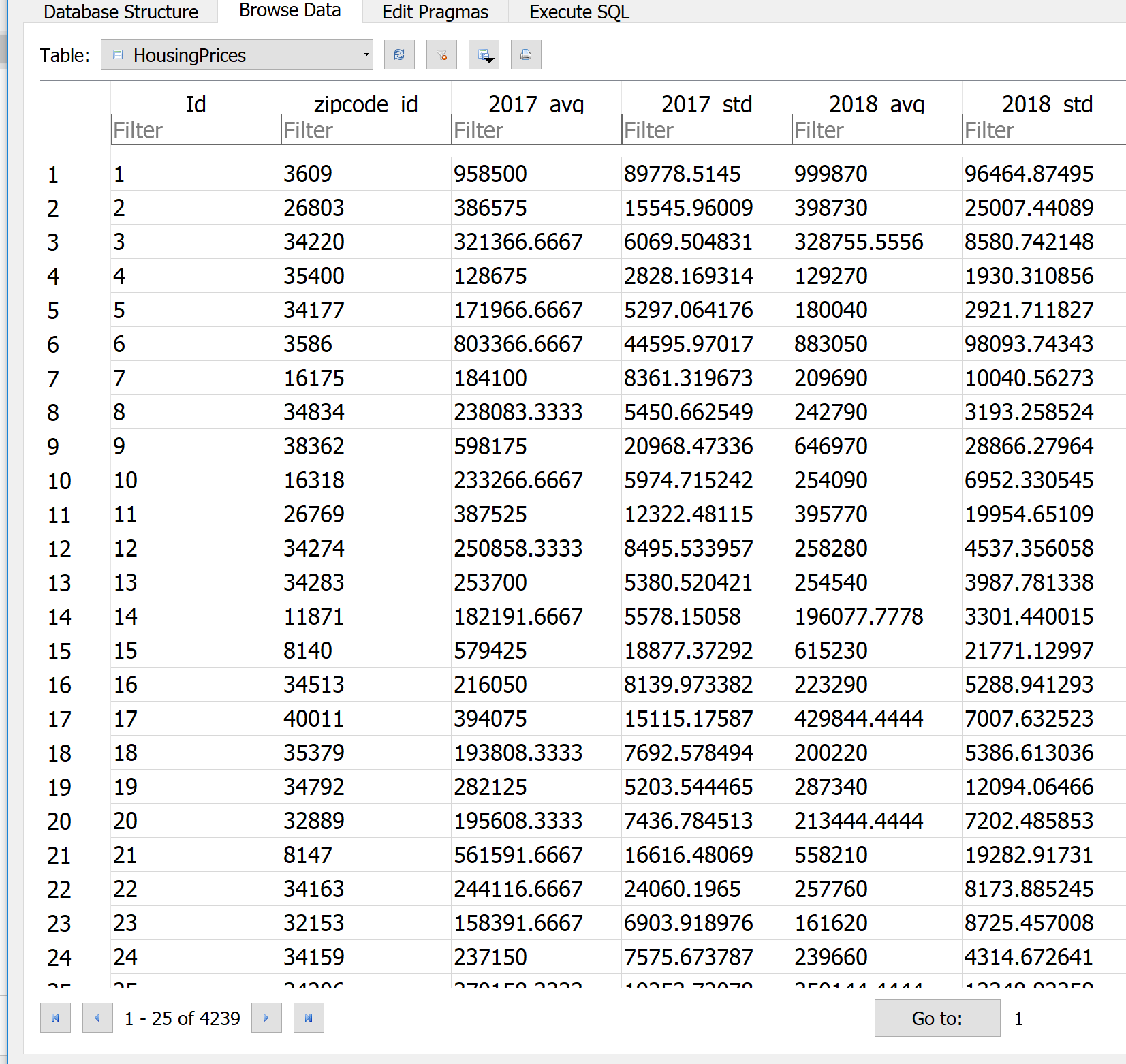
|  |
| --- |
| **Zipcodes** |
| Id  *(Primary Key)* |
| Zipcode  *(integer)* |
| State Id  *(integer)* |
| Lat  *(integer)* |
| Lon  *(integer)* |

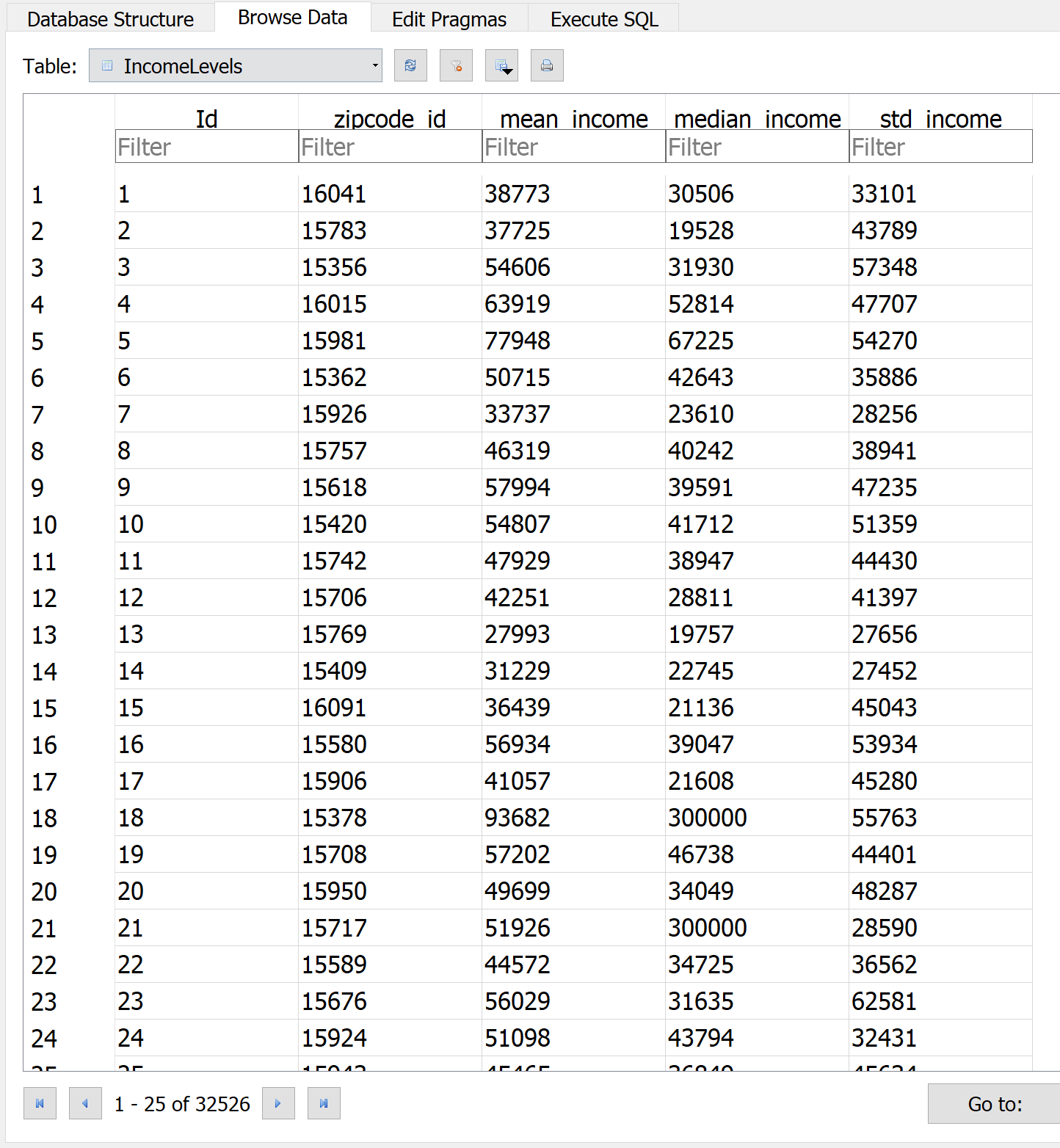
|  |
| --- |
| **States** |
| Id  *(primary key)* |
| Name  *(Text not null)* |
| Abbr  *(Text)* |

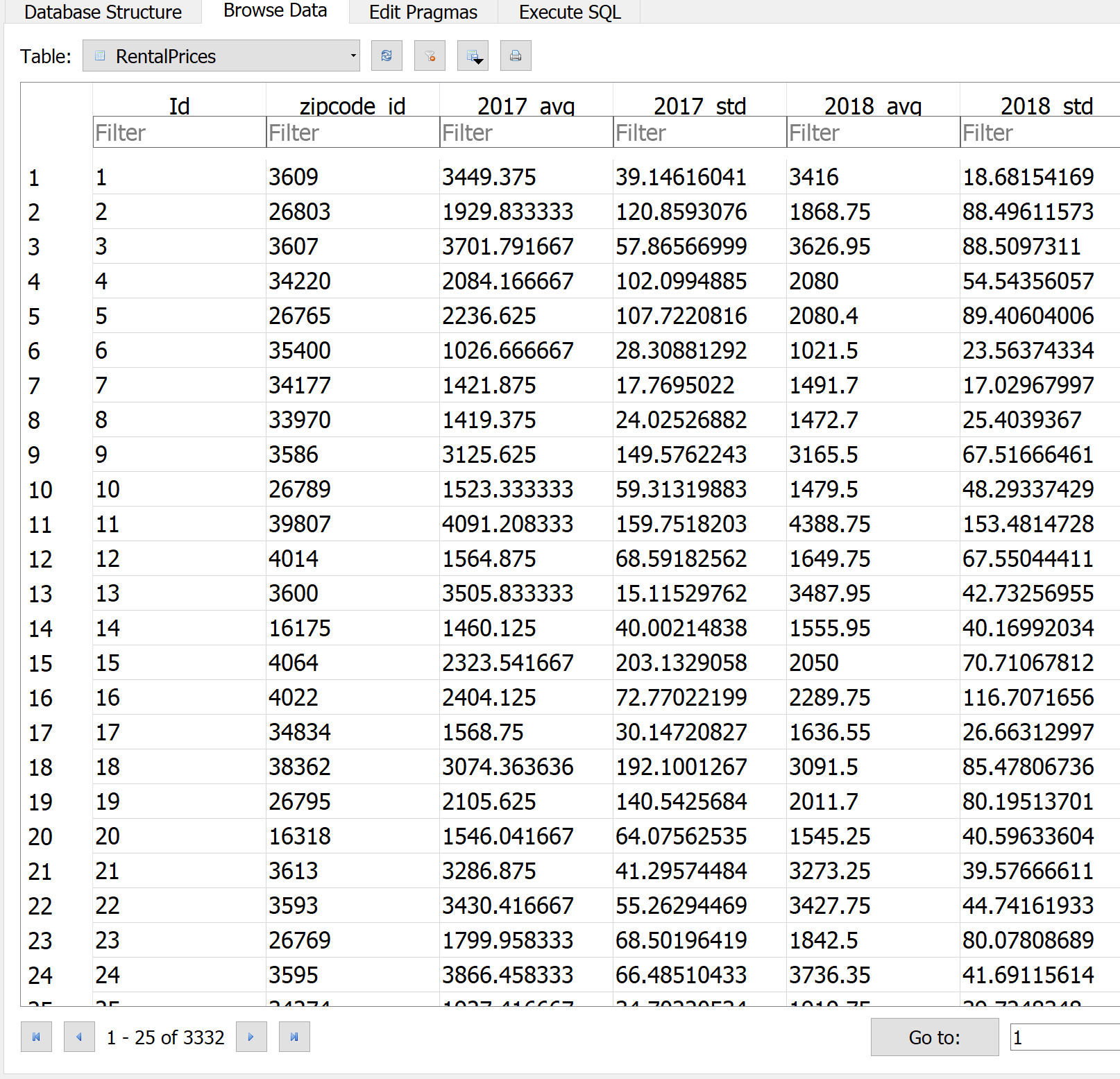
|  |
| --- |
| **Rental Prices** |
| Id  *(Primary Key)* |
| Zipcode\_id  *(integer)* |
| 2017\_avg  *(integer)* |
| 2017\_std  *(integer)* |
| 2018\_avg  *(integer)* |
| 2018\_std  *(integer)* |

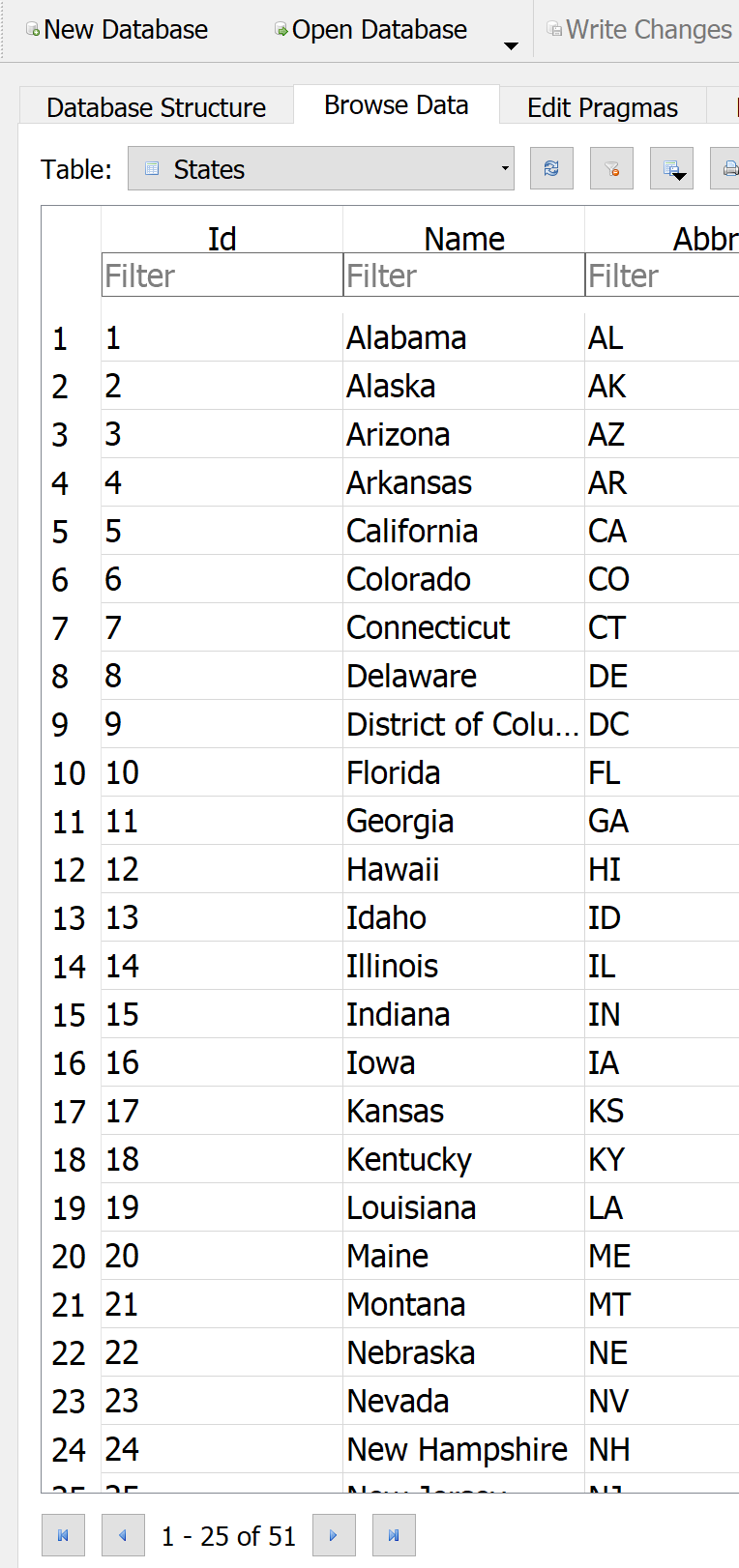
|  |
| --- |
| **Housing Prices** |
| Id  *(Primary Key)* |
| Zipcode\_id  *(integer)* |
| 2017\_avg  *(integer)* |
| 2017\_std  *(integer)* |
| 2018\_avg  *(integer)* |
| 2018\_std  *(integer)* |

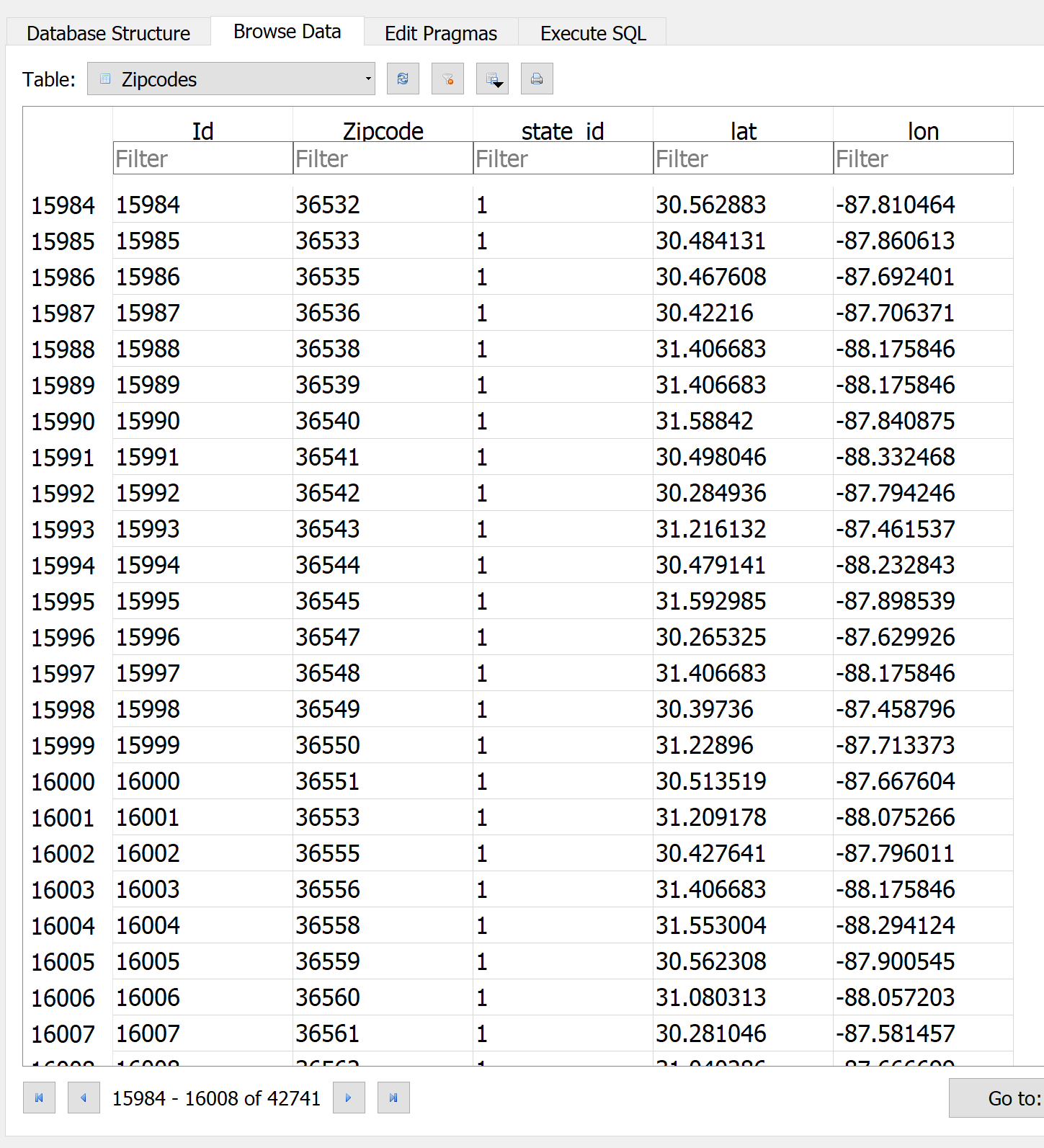
|  |
| --- |
| **Income Levels** |
| Id  *(Primary Key)* |
| Zipcode\_id  *(integer)* |
| Mean\_income  *(integer)* |
| Std\_income  *(integer)* |











Questions:

1. How to get Id to properly increment on database

1. **Create API request for Yelp**
   1. **Inputs**
      1. Base: 'https://api.yelp.com/v3/businesses/search'
      2. HTTP Auth: headers={'Authorization': 'bearer %s'%YELP\_KEY}
      3. Parameters: term=’restaurants’
      4. *Zipcode search*
         1. Params: Lat and Lon [from SQL query on zipcodes table]
      5. *Full Address search*
         1. Params:location [from user input]
   2. **Returns** (json file)
      1. 20 restaurants in location with:
         1. Business name
         2. Business type
         3. Business lat and lon
         4. Business price($-$$$$)
         5. Ratings(1-5)
         6. URL to site

|  |
| --- |
| **YelpResults** |
| Id  *(Primary Key)* |
| Zipcode\_id  *(integer)* |
| Business Name  *(integer)* |
| lat  *(integer)* |
| Lon  *(integer)* |
| Business\_price  *(text)* |
| Ratings  *(integer)* |
| Site\_url  *(text)* |

**Picture of Cache File**

