## Interactive - 13 - drop both tables

Let's try getting rid of our 2 tables. Our first attempt to do this will fail.

```
drop table if exists us_state;
```

We have a dependency via foreign constraint on us\_state. That is name\_list.

We can do this in order - or we can use an option to "cascade" the drops. "cascade" is powerful but dangerous. In PosgreSQL it will drop the table and associated constraints. In Oracle it cascades to the tables referenced!

```
DROP table if exists name_list;
DROP table if exists us_state;
```

Now use the supplied script to re-create the tables. There will be some additional columns when you do this that we will use in future homework exercises.

The files are hw13\_4.sql, hw13\_5.sql, hw13\_6.sql, hw13\_7.sql - run the entire set. The files are shown below. After you have run the file do the select to see a table of the states.

```
DROP TABLE if exists name_list cascade ;
DROP TABLE if exists us_state cascade ;
CREATE TABLE us_state (
                  UUID NOT NULL DEFAULT uuid_generate_v4() primary key,
    state_id
    state_name
                  text NOT NULL,
                  char varying (2) NOT NULL,
    state
   FIPS_code
                  char varying (2) NOT NULL,
                   int not null default 9999,
   area_rank
    area sq mi
                  numeric not null default 0,
                  int not null default 0,
   population
    fed area
                   int not null default 0,
                  float null default 0.0,
    gdp_growth
   gdp
                   float null default 0.0
);
CREATE UNIQUE INDEX us_state_uidx1 on us_state ( state );
```

```
INSERT INTO us_state
   ( state_name,
                             state, FIPS_code,
                                                population, area_rank, area_sq_mi, fed_are
                                        '01' ,
    ( 'Alabama',
                              'AL',
                                                    4903185,
                                                                    25,
                                                                             50750,
                                                                                        6,
                                        '02',
                              'AK',
    ('Alaska',
                                                     731545,
                                                                            570641,
                                                                    1,
                                                                                       12,
                                        '04' ,
                              'AZ',
    ('Arizona',
                                                    7278717,
                                                                    6,
                                                                            113642,
                                                                                       12,
                                        '05',
    ('Arkansas',
                              'AR',
                                                    3017825,
                                                                  27,
                                                                             52075,
                                                                                        8,
                                        '06',
    ( 'California',
                              'CA',
                                                   39512223,
                                                                   3,
                                                                            155973,
                                                                                       12,
```

```
'Florida',
                                    'FL',
                                                '12'
                                                             21477737,
                                                                                 26,
                                                                                           53997,
                                                                                                        6,
                                                '13'
                                                                                           57919,
                                                                                                        6,
       'Georgia',
                                    'GA',
                                                             10617423,
                                                                                 21,
                                    'HI',
                                                15'
                                                                                                       12,
       'Hawaii',
                                                              1415872,
                                                                                 47,
                                                                                            6423,
                                    'ID',
                                                '16'
       'Idaho',
                                                              1787065,
                                                                                           82751,
                                                                                                       12,
                                                                                 11,
                                                                                                        7,
       'Illinois',
                                    'IL',
                                                '17'
                                                                                           55593,
                                                             12671821,
                                                                                 24,
     ('Indiana',
                                    'IN',
                                                '18'
                                                              6732219,
                                                                                 38,
                                                                                           35870,
                                                                                                        7,
                                    'IA',
     ('Iowa',
                                                '19'
                                                              3155070,
                                                                                 23,
                                                                                           55875,
                                                                                                        7,
                                    'KS',
                                                '20'
       'Kansas',
                                                              2913314,
                                                                                           81823,
     (
                                                                                 13,
                                                                                                       10,
       'Kentucky',
                                    'KY',
                                                '21'
                                                              4467673,
                                                                                 36,
                                                                                           39732,
                                                                                                        8,
       'Louisiana',
                                    'LA',
                                                '22'
                                                              4648794,
                                                                                 33,
                                                                                           43566,
                                                                                                       11,
     (
       'Maine',
                                    'ME',
                                                '23'
                                                              1344212,
                                                                                 39,
                                                                                           30865,
                                                                                                        1,
       'Maryland',
                                    'MD'.
                                                '24'
                                                              6045680,
                                                                                 42,
                                                                                            9775,
                                                                                                        5,
       'Massachusetts',
                                    'MA',
                                                '25'
                                                              6949503,
                                                                                 45,
                                                                                            7838,
                                                                                                        1,
     ( 'Michigan',
                                    'MI',
                                                '26'
                                                              9986857,
                                                                                 22,
                                                                                           56539,
                                                                                                        7,
                                    'MN',
                                                '27'
                                                                                 14,
                                                                                                        9,
     ( 'Minnesota'
                                                              5639632,
                                                                                           79617,
                                                '28'
       'Mississippi',
                                    'MS',
                                                              2976149,
                                                                                 31,
                                                                                           46914,
                                                                                                        6,
     ( 'Missouri',
                                    'MO',
                                                '29'
                                                              6137428,
                                                                                 18,
                                                                                           68898,
                                                                                                        8,
INSERT INTO us_state
     ( state_name,
                                   state,
                                            FIPS_code,
                                                          population, area_rank, area_sq_mi, fed_are
     ( 'Montana',
                                    'MT',
                                                '30'
                                                              1068778,
                                                                                  4,
                                                                                          145556,
                                                                                                        9,
                                    'NE',
                                                '31'
       'Nebraska'
                                                              1934408,
                                                                                 15,
                                                                                           76878,
                                                                                                       10,
     (
                                    'NV',
                                                '32'
                                                              3080156.
                                                                                          109806.
       'Nevada',
                                                                                  7,
                                                                                                       12.
       'New Hampshire',
                                    'NH',
                                                '33'
                                                              1359711,
                                                                                            8969,
                                                                                 44,
                                                                                                        1,
       'New Jersey',
                                    'NJ',
                                                '34'
                                                              8882190,
                                                                                 46,
                                                                                            7419,
                                                                                                        5,
       'New Mexico',
                                    'NM',
                                                '35'
                                                              2096829,
                                                                                  5,
                                                                                          121365,
                                                                                                       11,
       'New York',
                                    'NY',
                                                '36'
                                                             19453561,
                                                                                 30.
                                                                                           47224.
                                                                                                        2,
     ( 'North Carolina',
                                    'NC',
                                                '37'
                                                             10488084,
                                                                                 29,
                                                                                           48718,
                                                                                                        5,
                                    'ND',
     (
       'North Dakota',
                                                '38'
                                                               762062,
                                                                                 17,
                                                                                           68994,
                                                                                                        9,
                                                '39'
     (
       'Ohio',
                                    'OH',
                                                             11689100,
                                                                                 35,
                                                                                           40953,
                                                                                                        4,
                                    'OK',
                                                '40'
                                                                                 19,
                                                                                           68679,
                                                                                                       10,
     (
       'Oklahoma',
                                                              3956971,
       'Oregon',
                                    'OR',
                                                '41'
                                                              4217737,
                                                                                 10,
                                                                                           96003,
                                                                                                       12,
                                    'PA',
                                                '42'
                                                             12801989,
                                                                                 32,
                                                                                           44820,
                                                                                                        4,
      'Pennsylvania',
       'Puerto Rico',
                                    'PR',
                                                '72'
                                                              3194000,
                                                                                 49,
                                                                                            3515,
                                                                                                        2,
     ( 'Rhode Island'
                                    'RI',
                                                '44'
                                                              1059361,
                                                                                 51,
                                                                                            1034,
                                                                                                        1,
                                    'SC',
                                                '45'
                                                                                                        5,
     ( 'South Carolina',
                                                              5148714,
                                                                                 40,
                                                                                           30111,
                                    'SD',
    ( 'South Dakota',
                                                '46'
                                                               884659,
                                                                                 16,
                                                                                           75898,
                                                                                                        9,
       'Tennessee',
                                    'TN',
                                                '47'
                                                              6833174,
                                                                                           41220,
                                                                                                        6,
                                                                                 34,
     ('Texas',
                                    'TX',
                                                '48'
                                                             28995881,
                                                                                          261914,
                                                                                  2,
                                                                                                       11,
    ('Utah',
                                    'UT',
                                                '49'
                                                              3205958.
                                                                                 12,
                                                                                           82168.
                                                                                                       12,
     ( 'Vermont',
                                    'VT',
                                                '50'
                                                               623989,
                                                                                            9249,
                                                                                 43,
                                                                                                        1,
```

'CO',

'CT',

'DE',

'DC',

'08'

'09'

'10'

111

5758736,

3565387,

973764,

705749,

8,

48,

50,

52,

103730,

4845,

1955,

137,

10,

1,

3,

5,

( 'Colorado',

( 'Delaware',

'Connecticut',

( 'District of Columbia',

```
'VA',
                                           '51',
                                                                        37,
    ('Virginia',
                                                       8535519,
    ( 'Virgin Islands',
                                'VI',
                                           '78'
                                                                        53,
                                                       106977,
                                          '53' ,
    ('Washington',
                                'WA',
                                                       7614893,
                                                                       20,
                                           '54' ,
    ( 'West Virginia',
                               'WV',
                                                       1792147,
                                                                       41,
                                           '55',
    ( 'Wisconsin',
                               'WI',
                                                       5822434,
                                                                       25,
                                'WY',
    ('Wyoming',
                                          '56',
                                                       578759,
                                                                       9,
CREATE TABLE name list (
    name_list_id UUID NOT NULL DEFAULT uuid_generate_v4() primary key,
    real_name text check ( length(real_name) >= 1 ) not null,
    age int check ( age > 0 and age < 154 ) not null,
    state char varying (2) not null,
    pay numeric(10,2)
);
CREATE INDEX name_list_idx1 on name_list ( real_name );
CREATE INDEX user_real_name_ci_idx1 ON name_list ((lower(real_name)));
ALTER TABLE name_list
    ADD CONSTRAINT name_list_state_fk
    FOREIGN KEY (state)
    REFERENCES us_state (state)
;
INSERT INTO name_list ( real_name, age, state, pay ) values
    ('Bob True', 22, 'WY', 31000),
                         20, 'WY', 28000 ),
31, 'NJ', 82500 ),
    ( 'Jane True',
    ( 'Tom Ace',
                    33, 'NJ', 89400 ),
    ( 'Steve Pen',
    ( 'Laura Jean Alkinoos', 34, 'PA', 120000 ),
    ('Philip Schlump', 62, 'WY', 101200),
('Liz Trubune', 30, 'WY', 48000),
('Lary Smith', 58, 'NJ', 48000),
                             21, 'NJ', 48000 ),
    ( 'Dave Dave',
    ( 'Laura Ann Alkinoos', 34, 'PA', 48000 )
;
You should have both states and territories with square miles.
SELECT * from us_state;
```

39598,

66582,

24087,

54314,

97105,

68,

5,

12,

12,

5,

7,

10,