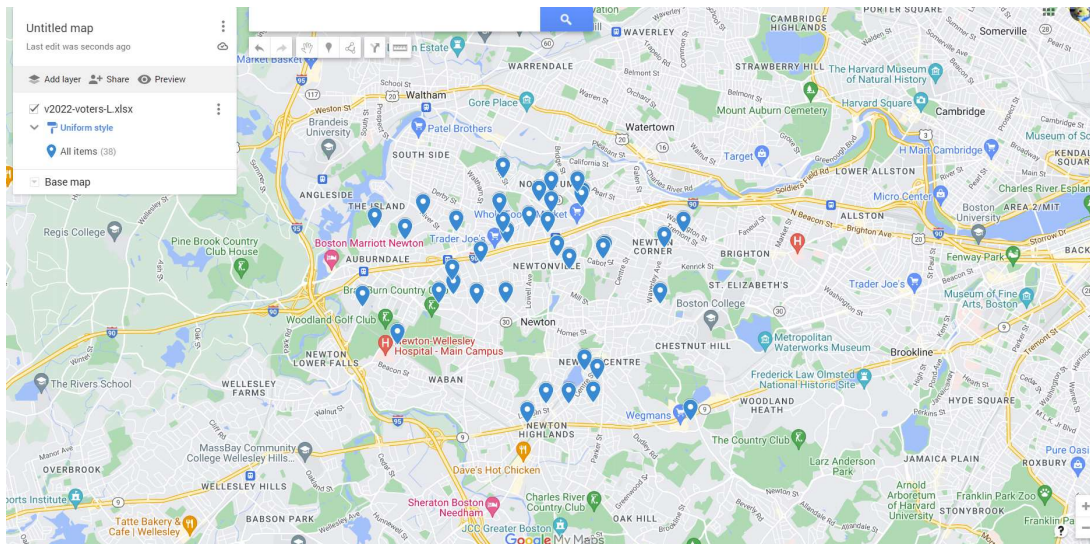Task 2 Question 2:

ALL WORK SHOWN IS IN THE CLIENT CODE OF MY .PY FILE

Task 2 Question 3:
A:

A new dataframe was created and was passed into the show_party_affiliation function, here is the output:
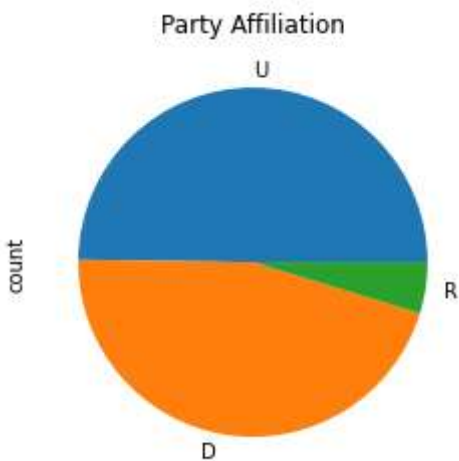
Of the 19936 records, the party affiliation is:
3 records matched the criteria.
   party U : 49.58% (n=9884)
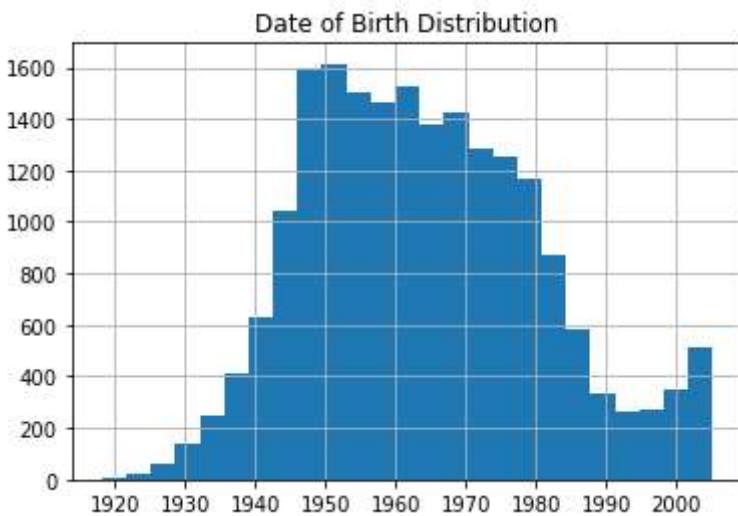   party D : 45.34% (n=9039)
   party R : 4.70% (n=937)

The new dataframe was also passed into the show_dob_distribution function here:

Here is the DOB distribution (19936 records):
    DOB < 1925   25   (0.13%)
    DOB < 1930   103   (0.52%)
    DOB < 1935   276   (1.38%)
    DOB < 1940   602   (3.02%)
    DOB < 1945   1188   (5.96%)
    DOB < 1950   2160 (10.83%)
    DOB < 1955   2279 (11.43%)
    DOB < 1960   2103 (10.55%)
    DOB < 1965   2115 (10.61%)
    DOB < 1970   2055 (10.31%)
    DOB < 1975   1822   (9.14%)
    DOB < 1980   1717   (8.61%)
    DOB < 1985   1317   (6.61%)
    DOB < 1990   658   (3.30%)
    DOB < 1995   393   (1.97%)
    DOB < 2000   433   (2.17%)
    DOB < 2005   623   (3.12%)
    DOB < 2010   54   (0.27%)

Date of Birth Distribution

B:
For this question, a new dataframe was created the same way it was before. But I also created a new condition variable that compares the DOBs of v23 voters to the year 1990 using the first dataframe that I created. I then passed this new condition into the first dataframe I created, and set it to a new dataframe.
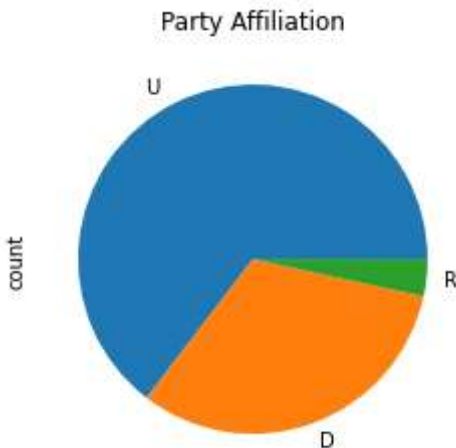
Of the 1509 records, the party affiliation is:
3 records matched the criteria.
   party D : 31.68% (n=478)
   party U : 63.95% (n=965)
   party R : 3.38% (n=51)
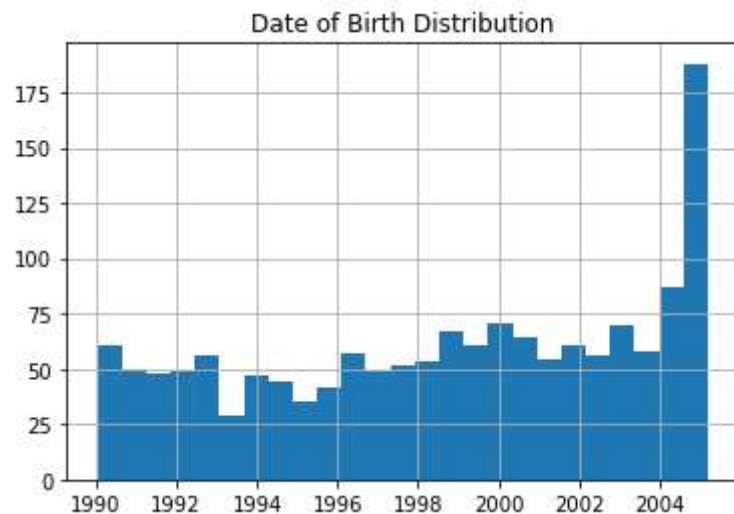
Party Affiliation

In younger voters of the v23 town election, Democrats and Unaffiliated voters were the two most populous parties.

Here is the DOB distribution (1509 records):
   DOB < 1925   0   (0.00%)
   DOB < 1930   0   (0.00%)
   DOB < 1935   0   (0.00%)
   DOB < 1940   0   (0.00%)
   DOB < 1945   0   (0.00%)
   DOB < 1950   0   (0.00%)
   DOB < 1955   0   (0.00%)
   DOB < 1960   0   (0.00%)
   DOB < 1965   0   (0.00%)
   DOB < 1970   0   (0.00%)
   DOB < 1975   0   (0.00%)
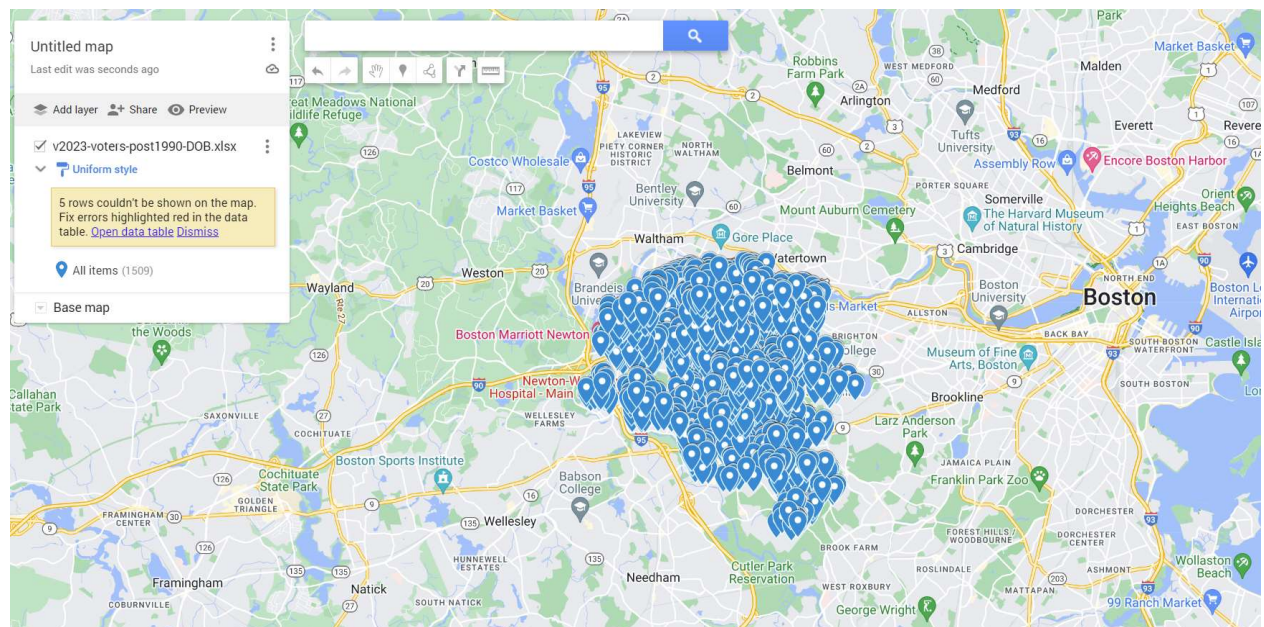   DOB < 1980   0   (0.00%)
   DOB < 1985   0   (0.00%)

```
DOB < 1990    0    (0.00%)
DOB < 1995   393   (26.04%)
DOB < 2000   433   (28.69%)
DOB < 2005   623   (41.29%)
DOB < 2010    54   (3.58%)
```


Mostly Gen Z-ers here.

Building Google Maps file with 1509 records.
Wrote v2023-voters-post1990-DOB.xlsx: 1509 records.

We just doxxed these people 😎