TEAM:

MELINDA EUDY

KELLY ROSE

DARRIUS SUMMERS

PROJECT IDEA:

- Covid-19 has created a society with a bit of claustrophobia.
- What will people want to do now that states are opening back up?
- Day trips? Weekend Trips?
- Distance? North and South Carolina
- · Something new!
- Result:
 - Bars in NC and SC
 - What are they rated?
 - How expensive?
 - Reviews?

DATA SETS:

Kaggle – Breweries and Beer Pubs in the US



'https://api.yelp.com/v3/businesses/search'

```
    params = {'term':'bars','location':'NC'}
    response=requests.get(url, params=params, headers=headers).json()
```

'https://api.yelp.com/v3/businesses/search'

```
• params = {'term':'bars','location':'SC'
response=requests.get(url, params=params, headers=headers).jso
n()
```

EXTRACT - KAGGLE .CSV FILE

Inspected File

```
csv_file = "Resources/7160_1.csv"
breweries_data_df = pd.read_csv(csv_file)
breweries_data_df.head()
                                           country key
  address categories
                              city
                                                                                                                                                postalCode province
                                                                                        lat
                                                                                                     long
                                                                                                                    name
                                                                                                                               phones
                                                                                                                                                                         webs
  407
                                                                                                                   (512)
0 Radam
               brewery
                                                      us/tx/austin/407radamln
                                                                                        NaN
                                                                                                     NaN
                                                                                                                   Brewing
                                                                                                                              5127072337
                                                                                                                                               78745
                                                                                                                                                                         NaN
   Ln
                                                                                                                    Со
```

- Removed rows with NaN data
 - breweries data df.dropna(inplace=True)
- Removed columns not required for final data table
- Sorted the table into a readable order

```
del breweries_data_df["key"]
del breweries_data_df["long"]
del breweries_data_df["lat"]
del breweries_data_df["categories"]
breweries_data_df = breweries_data_df[["name", "phones", "address", "city", "province", "postalCode", "websites"]]
```

Data set reduced to North and South Carolina only

```
    options = ['NC', 'SC']
    breweries_data_df = breweries_data_df[breweries_data_df['province'].isin(options)]
```

Renamed columns

```
• breweries_data_df=breweries_data_df.rename(columns ={"province": "state", "postalCode": "zip_code", "address": "address1"})
```

Final Count: 77 Bars in breweries_data_df

```
name 77
phones 77
address1 77
city 77
state 77
zip_code 77
websites 77
```

EXTRACT - Yelp - North Carlina

```
headers = {'Authorization': 'Bearer %s' % api_key}
url='https://api.yelp.com/v3/businesses/search''https://api.ye
lp.com/v3/businesses/search'
params = {'term':'bars','location':'NC'}
response=requests.get(url, params=params, headers=headers).jso
n()
bars_nc = json.dumps(response, indent = 4, sort_keys=True)
response['businesses']
```

Inspect the Data

```
'url': 'https://www.yelp.com/biz/stroke-charlotte?adjust_creative=1_exTwTpvzeU_FUI7UJu-g&utm_campaign=yelp_api_v3&utm_mediu m=api_v3_business_search&utm_source=1_exTwTpvzeU_FUI7UJu-g',
    'review_count': 24,
    'categories': ['alias': 'mini_golf', 'title': 'Mini_Golf'},
    {'alias': 'cocktailbars', 'title': 'Cocktail Bars'}],
    'rating': 4.5,
    'coordinates': {'latitude': 35.2210991686455,
    'longitude': -80.8131461568783},
    'transactions': [],
    location': {'addressi': '1318 Pecan Ave',
    'address2': None,
    'address3': '',
    'city': 'Charlotte',
    'zip_code': '28205',
    'country': 'US',
    'state': 'NC',
    'display_address': ['1318 Pecan Ave', 'Charlotte, NC 28205']},
    'phone': '+17044627007',
    'display_address': '(724) 462 7007',
    'display_address': '(724) 462 7007',
```

TRANSFORM - Yelp - North Carlina

Created a list of data needed for final DataFrame

Created a Pandas DataBase that does NOT remove rows with NaN (thank you Geronimo)

```
• data = {'address1':address1, 'bar_id': bar_id, 'price': p
rice, 'rating': rating, 'review count': review count}
```

```
bars_nc_df = pd.DataFrame(dict([ (k,pd.Series(v)) for k,v
in data.items() ]))
```

Final Count: 20 Bars in North Carolina

```
address1 20
bar_id 20
price 14
rating 14
review_count 14
```

EXTRACT - Yelp - South Carlina

```
headers = {'Authorization': 'Bearer %s' % api_key}
url='https://api.yelp.com/v3/businesses/search''https://api.ye
lp.com/v3/businesses/search'
params = {'term':'bars','location':'SC'}
response=requests.get(url, params=params, headers=headers).jso
n()
bars_sc = json.dumps(response, indent = 4, sort_keys=True)
response['businesses']
```

Inspect the Data

```
: [{'id': 'eL-gvkAzpoGHMmgKURSJDw',
    'alias': 'the-whig-columbia',
'name': 'The Whig',
     'image_url': 'https://s3-media3.fl.yelpcdn.com/bphoto/o2ir-8jXxM
    'is_closed': False,
    'url': 'https://www.yelp.com/biz/the-whig-columbia?adjust_creati
  siness_search&utm_source=1_exTwTpvzeU_FUI7UJu-g',
     'review_count': 203,
    'categories': [{'alias': 'divebars', 'title': 'Dive Bars'}],
    'rating': 4.5,
     'coordinates': {'latitude': 34.0015114, 'longitude': -81.033505}
    'transactions': ['delivery'],
    'price': '$',
'location': {'address1': '1200 Main St',
     'address2':
     'address3': ''
      'city': 'Columbia'
     'zip_code': '29201',
     'country': 'US',
'state': 'SC',
     'display_address': ['1200 Main St', 'Columbia, SC 29201']},
```

TRANSFORM - Yelp - South Carlina

Created a list of data needed for final DataFrame

```
• bar id = []
```

Created a Pandas DataBase that does NOT remove rows with NaN (thank you Geronimo)

```
    data = {'address1':address1, 'bar_id': bar_id, 'price': p rice, 'rating': rating, 'review_count': review_count}
    bars_sc_df = pd.DataFrame(dict([ (k,pd.Series(v)) for k,v in data.items() ]))
```

• Final Count: 20 Bars in South Carolina

```
address1 20
bar_id 20
price 16
rating 16
review_count 16
```

SEND TABLES TO POSTGRES (pgAdmin4):

```
breweries_data_df.to_sql(name='breweries_data', con=engine, if_exists='append', index=False)

bars_nc_df.to_sql(name='bars_nc', con=engine, if_exists='append', index=False)

bars_sc_df.to_sql(name='bars_sc', con=engine, if_exists='append', index=False)
```

• Altered breweries_data by adding three columns

```
ALTER TABLE breweries_data

ADD COLUMN price text,

ADD COLUMN rating double precision,

ADD COLUMN review_count double precision;
```

· Confirmed tables were present in pgAdmin4

```
SELECT * FROM bars_nc

SELECT * FROM bars_sc

SELECT * FROM breweries_data
```

Merged to final table: breweries

```
-- Merge tables

CREATE TABLE breweries_combined

AS

SELECT * FROM breweries_data

UNION

SELECT * FROM bars_sc

CREATE TABLE breweries

AS

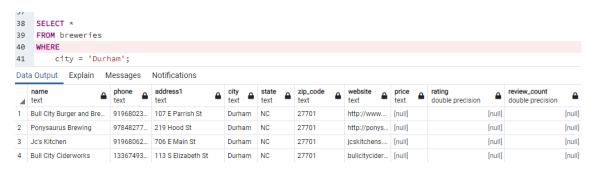
SELECT * FROM breweries_combined

UNION

SELECT * FROM bars_nc
```

LOAD:

- Confirmed merged table
- Confirmed size of table: 117 rows



Conclusion:

· Road Trip: Going to Durham.



- Four locations for us to visit!
- Accomplished: Generated a production database displaying breweries in North Carolina and South Carolina