JSON file

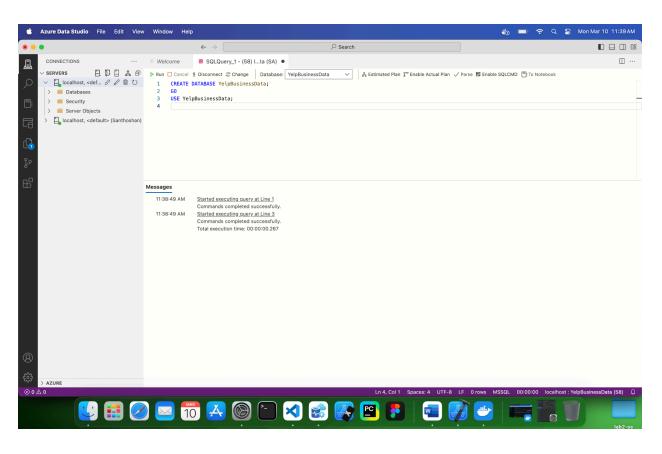
```
Code File Edit Selection View Go Run Terminal Window Help
                                                                                                                                                                                                                                                                                                                                                                                   👘 📼 🤝 Q 🛢 Mon Mar 10 11:36 AM
                                                                                                                                                                                                 OnebusinessDataFormat_yelp.json — Lab2
Ф
                                                       ··· () OnebusinessDataFormat_yelp.json ×
             ✓ OPEN EDITORS
JSONData > {} OnebusinessDataFormat_yelp,json > .
X {} OnebusinessDa...
1 {
                                                                                               "business_id": "3UmkYjUELNYYNQANhGcklw",
"full_address": "4734 Lebanon Church Rd\nDravosburg, PA 15034",
"hours": {
    "criday": {
        "cricse": "21:00",
        "open": "11:00"
             > csv_output

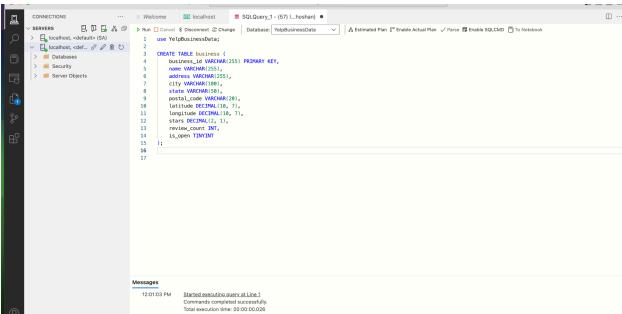
V JSONData
          {} business100ValidF...
{} First10BusinessJas...
                     nestaurant_menu.x...
                                                                                                              Thursday": {
    "close": "21:00",
    "open": "11:00"
,
Wednesday": {
    "close": "21:00",
    "open": "11:00"
  <u>ت</u>
                                                                                                                londay": {
    "close": "21:00",
    "open": "11:00"
                                                                                              "open": "lise"
}
}, "open": true,
"categories": ["Fast Food",
"Restaurants"],
"city": "Dravosburg",
"reviee_count": 4,
"name": "Mr Hoagie",
"longitude": -79.9007057,
"state": "PA",
"stars": 44.534326,
"attributes": {
    "dessert": false,
    "Good For": {
        "dessert": false,
        "lunch": false,
        "brunch": false,
 > OUTLINE
> TIMELINE
                                                                                                                                                                                                                                                                                                                           Ln 1, Col 1 Tab Size: 4 UTF-8 LF ( JSON 👸 🕸 Go Live 🛷 Prettier
```

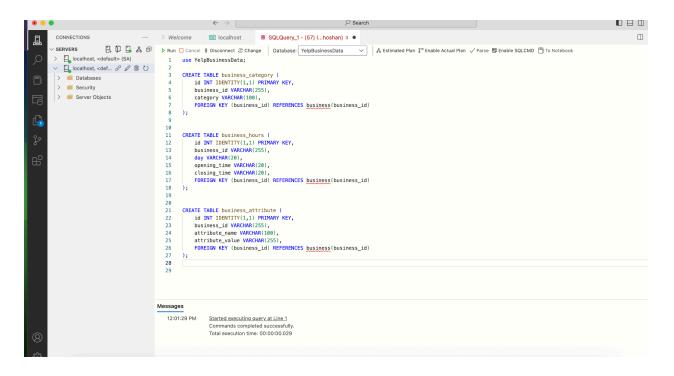
Schema

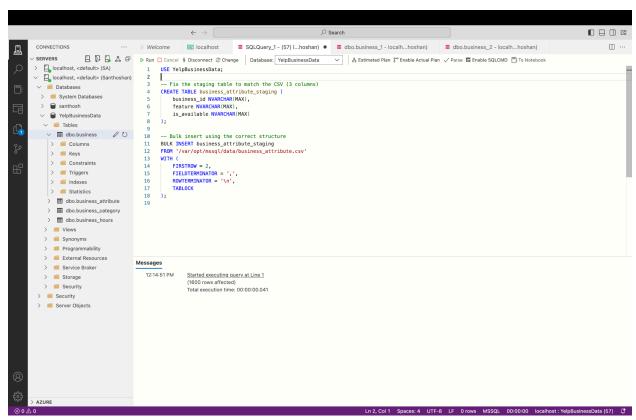


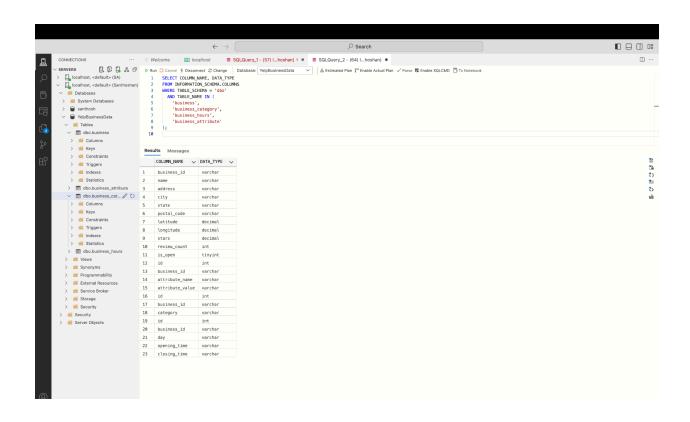
Created Database:











	business_id	name	address	city	state	postal_code	latitude	longitude	stars
1	-taSf0shFSUKy	Italian Villa…	2615 Main St⊷…	Homestead	PA	NULL	40.3925524	-79.9000102	2.5
2	_qopVQ6_Mz6W7	Advance Auto	1011 Washingt	Carnegie	PA	NULL	40.3983526	-80.0824517	3.5
3	0hrB2iwQZ52VZ	Joe Dilorio's	101 E 7th Ave	Homestead	PA	NULL	40.4068200	-79.9127880	4.5
4	1_lU0-eSWJCRv	Carnegie Free…	300 Beechwood	Carnegie	PA	NULL	40.4068423	-80.0858661	4.5
5	1qCuOcks5HRv6	Duke's Upper	122 W 8th Ave	Homestead	PA	NULL	40.4053110	-79.9125950	3.5
6	1u2Nau0y8xDj7	Amerifit	100 Roessler _	Carnegie	PA	NULL	40.3943050	-80.0601540	3.0
7	3eu6MEFlq2Dg7	Joe Cislo's A	1 Ravine St↔D	Dravosburg	PA	NULL	40.3509559	-79.8890590	5.0
8	3gmBc0qN_LtGb	Starbucks	270 W Bridge _	Homestead	PA	NULL	40.4070910	-79.9169580	3.5
9	3ZVKmuK2l7uXP	Quaker State	8 Logan St⊷Ca	Carnegie	PA	NULL	40.4063230	-80.0903575	2.5
10	4ykgzzzGEWjMD	Big Bang Bicy	347 Lebanon R	West Mifflin	PA	NULL	40.3715391	-79.9264919	4.5
11	53Yk2E0DWnV9q	Bellisario Pi	1842 Homevill	West Mifflin	PA	NULL	40.3736775	-79.8737336	3.0
12	57HN9fGRar_Gc	Filene's Base	280 Waterfron	Homestead	PA	NULL	40.4116978	-79.9124082	4.0
13	5UmKMjUEUNdYW	Mr Hoagie	4734 Lebanon	Dravosburg	PA	NULL	40.3543266	-79.9007057	4.5
14	6ilJq_05xRgek	Steak 'n Shake	650 E Waterf	Munhall	PA	NULL	40.4134960	-79.9044562	2.0
15	6o3RK6rTcN3nw	Porto Fino Pi	231 E Main St.	Carnegie	PA	NULL	40.4088068	-80.0848871	2.5
16	6p9TlP2I8S4ag	Uno Pizzeria	205 East Wate	Homestead	PA	NULL	40.4109670	-79.9141364	3.0
17	8Nm_jcCYtMXYW	Sapporo Japan	4260 Steubenv	Pittsburgh	PA	NULL	40.4400036	-80.0909106	4.5
18	8QlnAcjGE6dgf	Boston Market	300 Davis Blv	Pittsburgh	PA	NULL	40.4951670	-79.9587170	2.5
19	9tAbTDdYTASHL	Ricci Italian	500 Pine Holl	Mc Kees Rocks	PA	NULL	40.4736321	-80.0969955	4.5
20	b12U9TFESStdy	Flynn's Tire	718A Hope Hol.	Carnegie	PA	NULL	40.3945880	-80.0844539	2.5
21	b9WZJp5L1RZr4	Gab & Eat	1073 Washingt	Carnegie	PA	NULL	40.3980741	-80.0833859	4.5
22	bCw9HKDFLU_Pp	Giant Eagle	1356 Hoffman	West Mifflin	PA	NULL	40.3823673	-79.8683920	2.5

JSON to CSV

#Main.py

try:

```
import json
import csv
import pandas as pd
import os
import re

# Print current working directory
print(f"Current working directory: {os.getcwd()}")

# Function to read and fix JSON
def read_json_file(file_path):
    print(f"Opening file: {file_path}")
```

```
with open(file path, 'r', encoding='utf-8') as file:
       content = file.read()
       # Basic fixes for malformed JSON
       content = content.replace("Price Range": $$', "Price Range": 2')
       content = content.replace("'price_range": $$', "'price_range": 2')
       content = re.sub(r')\s^*\{', '\}, \{', content\}
       # Try parsing JSON
       try:
          data = json.loads(content)
          return data.get("Business", data)
       except json.JSONDecodeError:
          print("Standard JSON parse failed, trying line-by-line repair...")
     # Try line-by-line parsing
     businesses = []
     with open(file path, 'r', encoding='utf-8') as file:
       lines = file.readlines()
     obj lines = []
     for line in lines:
       line = line.strip()
       if line.startswith('{') and line.endswith('}'):
          try:
             business = json.loads(line)
             businesses.append(business)
          except json.JSONDecodeError:
             continue
     return businesses
  except FileNotFoundError:
     print(f"File not found: {file path}")
     exit(1)
  except Exception as e:
     print(f"Unexpected error: {type(e). name }: {e}")
     exit(1)
# File path
```

```
json file = 'business100ValidForm.json'
# Show files for context
print("Files in current directory:")
for file in os.listdir('.'):
  print(f" - {file}")
# Read and process the JSON
businesses = read json file(json file)
if not businesses:
  print("No business records found.")
  exit(1)
# Prepare data containers
business data = []
category data = []
hours data = []
attribute data = []
print(f"Processing {len(businesses)} business records...")
for biz in businesses:
  address = biz.get('address', biz.get('full address', "))
  business data.append({
     'business id': biz.get('business id', "),
     'name': biz.get('name', "),
     'address': address,
     'city': biz.get('city', "),
     'state': biz.get('state', "),
     'postal code': biz.get('postal code', "),
     'latitude': biz.get('latitude', 0),
     'longitude': biz.get('longitude', 0),
     'stars': biz.get('stars', 0),
     'review count': biz.get('review count', 0),
     'is open': 1 if biz.get('open', False) else 0
  })
  # Categories
  categories = biz.get('categories', [])
```

```
if isinstance(categories, str):
  categories = categories.split(', ')
for category in categories:
  category data.append({
     'business id': biz.get('business id'),
     'category': category
  })
# Hours
for day, hours in biz.get('hours', {}).items():
  if isinstance(hours, dict):
     hours data.append({
        'business id': biz.get('business id'),
        'day': day,
        'open': hours.get('open', "),
        'close': hours.get('close', ")
     })
  elif isinstance(hours, str):
     times = hours.split('-')
     hours data.append({
        'business id': biz.get('business id'),
        'day': day,
        'open': times[0],
       'close': times[1] if len(times) > 1 else "
     })
# Attributes
for attr, value in biz.get('attributes', {}).items():
  if isinstance(value, dict):
     for sub attr, sub val in value.items():
        attribute data.append({
          'business id': biz.get('business id'),
          'attribute name': f"{attr}.{sub attr}",
          'attribute value': str(sub val)
        })
  else:
     attribute data.append({
        'business id': biz.get('business id'),
        'attribute name': attr,
        'attribute value': str(value)
```

```
# Save to CSV
pd.DataFrame(business_data).to_csv('business.csv', index=False)
pd.DataFrame(category_data).to_csv('business_category.csv', index=False)
pd.DataFrame(hours_data).to_csv('business_hours.csv', index=False)
pd.DataFrame(attribute_data).to_csv('business_attribute.csv', index=False)
print("CSV files created:")
print(" - business.csv")
print(" - business_category.csv")
print(" - business_hours.csv")
print(" - business attribute.csv")
```