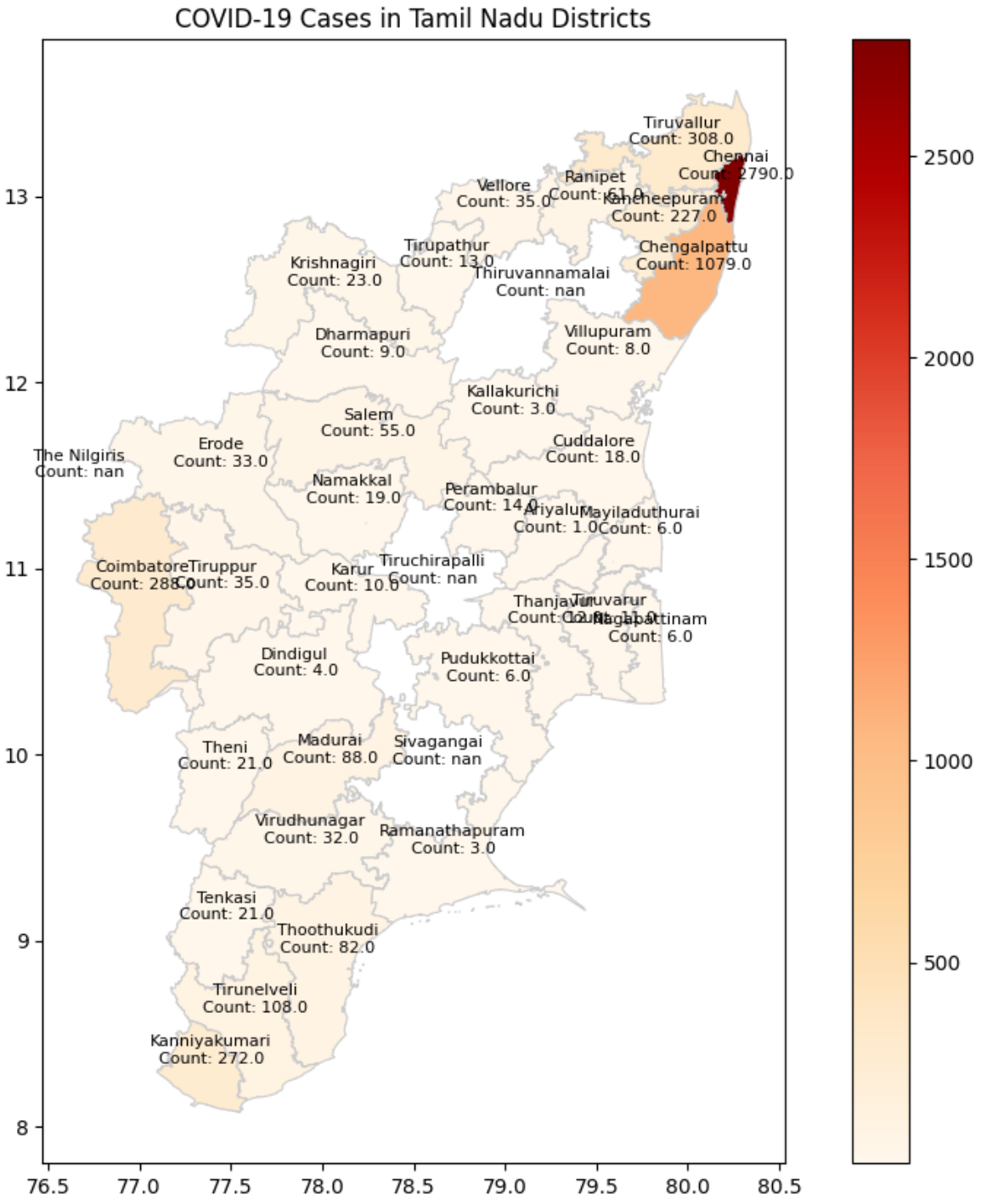
In [ ]:

```
import geopandas as gpd
import pandas as pd
import matplotlib.pyplot as plt

# Load Tamil Nadu district shapefile
tamilnadu_shapefile = gpd.read_file('Districts.shp')

# Load Covid-19 deaths dataset from CSV
csv_file_path = 'COVID.csv'
df = pd.read_csv(csv_file_path)

# Merge the shapefile data with the dataset
merged = tamilnadu_shapefile.set_index('dist_name').join(df.set_index('dist_name

# Plotting
fig, ax = plt.subplots(1, 1, figsize=(12, 10))

# Plot the map using the 'Persons under Treatment including Home Treatment as on
merged.plot(column='Persons under Treatment including Home Treatment as on 24.06

# Add labels for each district
for idx, row in merged.iterrows():
    # Get the centroid of the geometry
    centroid = row['geometry'].centroid

    # Add annotation with district name and count
    ax.annotate(text=f"{idx}\nCount: {row['Persons under Treatment including Hom
                xy=(centroid.x, centroid.y),
                xytext=(3, 3),  # Optional: Offset the text for better visibilit
                textcoords='offset points',
                ha='center',
                fontsize=8)

# Set title
ax.set_title('COVID-19 Cases in Tamil Nadu Districts')

# Show the plot
plt.show()
```


COVID-19 Cases in Tamil Nadu Districts
Tiruvallur
Count: 308.0
Chennai
Count: 2790.0
Vellore
Count: 35.0
Ranipet
Count: 61.0
Kancheepuram
Count: 227.0
Tirupathur
Count: 13.0
Chengalpattu
Count: 1079.0
Krishnagiri
Count: 23.0
Thiruvannamalai
Count: nan
Dharmapuri
Count: 9.0
Villupuram
Count: 8.0
Kallakurichi
Count: 3.0
Salem
Count: 55.0
Erode
Count: 33.0
Cuddalore
Count: 18.0
The Nilgiris
Count: nan
Namakkal
Count: 19.0
Perambalur
Count: 14.0
Ariyalur
Count: 1.0
Mayiladuthurai
Count: 6.0
Coimbatore
Count: 288.0
Tiruppur
Count: 35.0
Karur
Count: 10.0
Tiruchirapalli
Count: nan
Thanjavur
Count: 12.0
Tiruvarur
Count: 13.0
Nagapattinam
Count: 6.0
Dindigul
Count: 4.0
Pudukkottai
Count: 6.0
Theni
Count: 21.0
Madurai
Count: 88.0
Sivagangai
Count: nan
Virudhunagar
Count: 32.0
Ramanathapuram
Count: 3.0
Tenkasi
Count: 21.0
Thoothukudi
Count: 82.0
Tirunelveli
Count: 108.0
Kanniyakumari
Count: 272.0
13
12
11
10
9
8
76.5
77.0
77.5
78.0
78.5
79.0
79.5
80.0
80.5
2500
2000
1500
1000
500