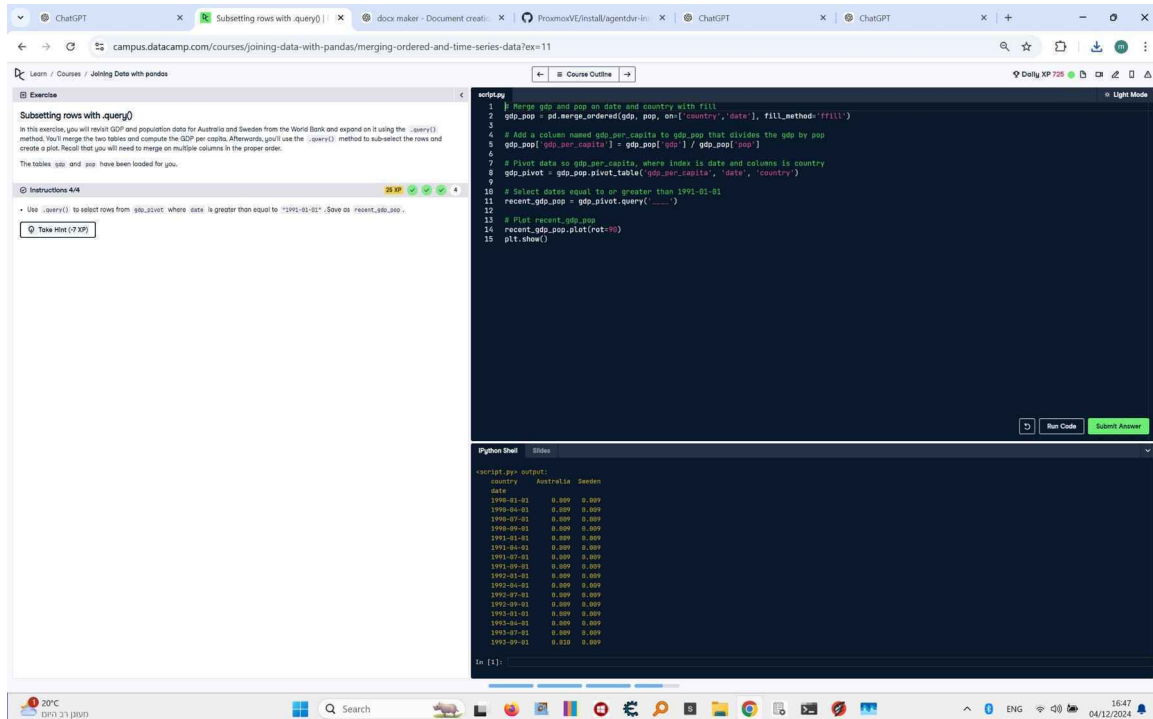


Subsetting rows with .query() - Step 4



The screenshot shows a Jupyter Notebook with the following code:

```
1 # Merge gdp and pop on date and country with fill
2 gdp_pop = pd.merge_ordered(gdp, pop, on=['country', 'date'], fill_method='ffill')
3
4 # Add a column named gdp_per_capita to gdp_pop that divides the gdp by pop
5 gdp_pop['gdp_per_capita'] = gdp_pop['gdp'] / gdp_pop['pop']
6
7 # Pivot data so gdp_per_capita, where index is date and columns is country
8 gdp_pivot = gdp_pop.pivot_table('gdp_per_capita', 'date', 'country')
9
10
11 # Select dates equal to or greater than 1991-01-01
12 recent_gdp_pop = gdp_pivot.query('date >= 1991-01-01')
13
14 # Plot recent_gdp_pop
15 recent_gdp_pop.plot(rot=90)
16 plt.show()
```

The output of the code is a table showing GDP per capita for Australia and Sweden from 1980-01-01 to 1993-01-01:

date	Australia	Sweden
1980-01-01	0.009	0.009
1980-04-01	0.009	0.009
1980-07-01	0.009	0.009
1980-10-01	0.009	0.009
1981-01-01	0.009	0.009
1981-04-01	0.009	0.009
1981-07-01	0.009	0.009
1981-10-01	0.009	0.009
1982-01-01	0.009	0.009
1982-04-01	0.009	0.009
1982-07-01	0.009	0.009
1982-10-01	0.009	0.009
1983-01-01	0.009	0.009
1983-04-01	0.009	0.009
1983-07-01	0.009	0.009
1983-10-01	0.011	0.009

Question:

Use .query() to select rows from gdp_pivot where date is greater than or equal to '1991-01-01'. Save as recent_gdp_pop and plot.

Answer:

```
# Merge gdp and pop on date and country with fill
gdp_pop = pd.merge_ordered(
    gdp, pop,
    on=['country', 'date'],
    fill_method='ffill'
)
```

```
# Add a column named gdp_per_capita to gdp_pop that divides the gdp by
pop
gdp_pop['gdp_per_capita'] = gdp_pop['gdp'] / gdp_pop['pop']
```

```
# Pivot table of gdp_per_capita, where index is date and columns is country
gdp_pivot = gdp_pop.pivot_table(
    values='gdp_per_capita',
    index='date',
    columns='country'
)
```

```
# Use .query() to select rows where date >= '1991-01-01'  
recent_gdp_pop = gdp_pivot.query('date >= "1991-01-01"')
```

```
# Plot recent_gdp_pop  
recent_gdp_pop.plot(  
    rot=90  
)  
plt.show()
```