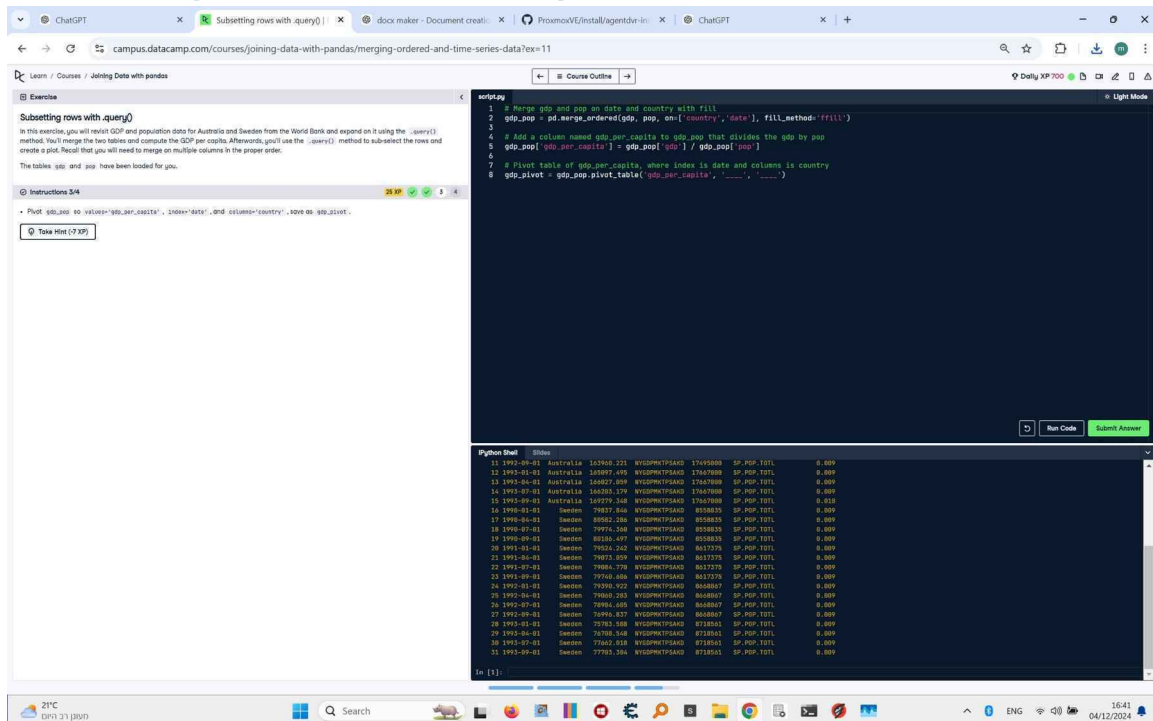


## Subsetting rows with .query() - Step 3



The screenshot shows a Jupyter Notebook interface with the following content:

**Exercise**

**Subsetting rows with .query()**

In this exercise, you will reach GDP and population data for Australia and Sweden from the World Bank and expand on it using the `.query()` method. You'll merge the two tables and compute the GDP per capita. Afterwards, you'll use the `.query()` method to subselect the rows and create a plot. Recall that you will need to merge on multiple columns in the proper order.

The tables `gdp` and `pop` have been loaded for you.

**Instructions 3/4**

• Plot `gdp_pop` on `values="gdp_per_capita"`, `index="date"`, and `columns="country"`. Save as `gdp_pivot`.

**Code Cell**

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

**Python Shell**

```
11 1992-01-01 Australia 167660.221 WISDOMPT72AAG 17409000 GP_POP_TOTL 0.009
12 1993-01-01 Australia 168007.496 WISDOMPT72AAG 17467000 GP_POP_TOTL 0.009
13 1994-01-01 Australia 168287.899 WISDOMPT72AAG 17467000 GP_POP_TOTL 0.009
14 1995-01-01 Australia 168333.179 WISDOMPT72AAG 17467000 GP_POP_TOTL 0.009
15 1996-01-01 Australia 169270.248 WISDOMPT72AAG 17467000 GP_POP_TOTL 0.009
16 1996-01-01 Sweden 79837.636 WISDOMPT72AAG 8058635 GP_POP_TOTL 0.009
17 1996-01-01 Sweden 80502.286 WISDOMPT72AAG 8058635 GP_POP_TOTL 0.009
18 1996-01-01 Sweden 79975.548 WISDOMPT72AAG 8058635 GP_POP_TOTL 0.009
19 1996-01-01 Sweden 80186.497 WISDOMPT72AAG 8058635 GP_POP_TOTL 0.009
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21 1997-01-01 Sweden 79673.839 WISDOMPT72AAG 8017375 GP_POP_TOTL 0.009
22 1997-01-01 Sweden 79686.778 WISDOMPT72AAG 8017375 GP_POP_TOTL 0.009
23 1997-01-01 Sweden 79968.686 WISDOMPT72AAG 8017375 GP_POP_TOTL 0.009
24 1997-01-01 Sweden 79390.922 WISDOMPT72AAG 8008027 GP_POP_TOTL 0.009
25 1997-01-01 Sweden 78968.263 WISDOMPT72AAG 8008027 GP_POP_TOTL 0.009
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100 1997-01-01 Sweden 78984.485 WISDOMPT72AAG 8008027 GP_POP_TOTL 0.009
```

### Question:

Pivot `gdp_pop` to values=`'gdp_per_capita'`, index=`'date'`, and columns=`'country'`. Save as `gdp_pivot`.

### 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'
)
```

```
# Print the resulting pivot table  
print(gdp_pivot)
```