

## Subsetting Columns - Individuals and State

This document includes the question, the solution, and a breakdown of the code provided in the screenshot.

### Uploaded Screenshot

Below is the screenshot of the task:

The screenshot shows a web browser window with a DataCamp course page. The page title is 'Subsetting columns | Python'. The course is 'Data Manipulation with pandas'. The exercise is 'Subsetting columns'. The instructions are:

- When working with data, you may not need all of the variables in your dataset. Square brackets ( `[]` ) can be used to select only the columns that matter to you in an order that makes sense to you. To select only `"col_a"` of the DataFrame `df`, use `df["col_a"]`.
- To select `"col_a"` and `"col_b"` of `df`, use `df[["col_a", "col_b"]]`.
- homelessness is available and pandas is loaded as `pd`.

The instructions are numbered 1/3, 2/3, and 3/3. The 3/3 instruction is highlighted. It says: 'Create a DataFrame called `ind_state` that contains the `individuals` and `state` columns of `homelessness`, in that order.'

Below the instructions is a 'Take Hint (-9 XP)' button.

On the right side of the interface is a code editor with the following code:

```
1 # Select only the individuals and state columns, in that order
2 ind_state = ____
3
4 print(ind_state.head())
```

Below the code editor is a 'Run Code' button and a 'Submit Answer' button.

At the bottom of the interface is a 'Python Shell' window showing the output of the code:

```
<script.py> output:
state  family_members
0  Alabama           864.0
1  Alaska            582.0
2  Arizona          2686.0
3  Arkansas           432.0
4  California       28964.0
```

The 'In [1]:' prompt is visible below the output.

### Question

Create a DataFrame called `ind_state` that contains the `individuals` and `state` columns of `homelessness`, in that order. Print the first few rows of the DataFrame.

### Answer

```
# Select only the individuals and state columns, in that order
ind_state = homelessness[["individuals", "state"]]
```

```
# Print the first few rows
print(ind_state.head())
```

### Code Explanation

# Explanation of the code:

1. ``homelessness[["individuals", "state"]]`: Selects the ``individuals`` and ``state`` columns from the ``homelessness`` DataFrame.
  - The double square brackets ``[[ ]]` are used to select multiple columns.
2. ``ind_state``: Stores the resulting DataFrame with the selected columns.
3. ``print(ind_state.head())``: Displays the first five rows of the ``ind_state`` DataFrame to check its contents.