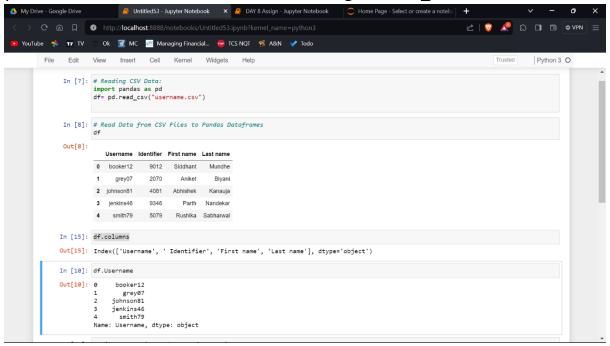
Siddhant Mundhe

Data engineering batch 1

Coding Challenge Z

PANDAS

- -Pandas is a popular open-source data manipulation and analysis library for Python.
- -It provides data structures like DataFrame for efficient data manipulation with built-in functions for various tasks.
- -Assuming you have a CSV file named Username.csv with some sample data, you can read it into a Pandas DataFrame using the read csv function:



Filtering Data using Query:

- -Pandas provides the query method for filtering data based on a query expression.
- To filter pandas DataFrame all you need to do is specify the condition within query function.

For example, let's say you want to filter rows where the 'Identifier > 2500':

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LAMBDA FUNCTION:

- -In Python, a lambda function is a concise way to create anonymous functions. Lambda functions are often used for short, simple operations and are defined using the lambda keyword.
- -The syntax for a lambda function is:

lambda arguments: expression

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In this example, we have a regular function square that squares a given number. The equivalent lambda function square_lambda accomplishes the same task. The lambda function is particularly useful for short, one-line operations.

- -In Python, you can convert <u>JSON (JavaScript Object Notation) strings to</u>
 <u>Python dictionaries or lists</u> using the json module.
- JSON is a lightweight data interchange format that is easy for humans to read and write and easy for machines to parse and generate.
- If you have a JSON string representing a dictionary and list, you can use the json.loads (load string) function to convert it into a Python dictionary or lists.

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         In [23]: # JSON Strings to Python dicts
                  json_string_dict = '{"name": "Siddhant", "age": 22, "city": "Jalna"}'
                  python_dict = json.loads(json_string_dict)
                  print("Python Dictionary:")
                  print(python_dict)
                  Python Dictionary:
{'name': 'Siddhant', 'age': 22, 'city': 'Jalna'}
         In [24]: # JSON Strings to Python lists
                  json_string_list = '[1, 2, 3, 4, 5]'
                  python_list = json.loads(json_string_list)
                  print("Python List:")
                  print(python_list)
                  Python List:
                  [1, 2, 3, 4, 5]
```