Data Analytics in Python
COMP 2800
Spring 2024

Assignment 3

Complete each of the following exercises by writing the Python code required to get the given output.
Put all of your code into a single Python file to submit it.

1. **Given the following dictionary:**

```
student_dict = {"name": ["Joe", "Nat", "Harry"],
"age": [30, 21, 29], "salary": [85.10, 77.80, 91.54]}
```

   Create a DataFrame that looks like the following when printed:

```
                   name    salary  age
Human Resources    Joe     85.10   30
Marketing          Nat     77.80   21
Development         Harry   91.54   29
```

2. **Now create (from scratch) a Python list of dictionaries that can be used to produce the same DataFrame.**

3. **Now write code that will select from the above DataFrame just the rows that have a salary above 80.**

4. **Write code that will export the DataFrame to a list of lists.**

5. **Write code that will export the DataFrame to a dictionary.**

6. **Finally, write code that will sort the DataFrame by name.**

7. **Email your file as an attachment to prof. Stucki. Change the extension to .txt before attaching it.**

Due: Monday, 2/12/2024 by 11:59pm