Python Pandas – I expect to do at least couple of the tasks.

Run following code:

import pandas as pd

def get\_employees\_df():

  return pd.read\_csv(

      "https://gist.githubusercontent.com/kevin336/acbb2271e66c10a5b73aacf82"

        "ca82784/raw/e38afe62e088394d61ed30884dd50a6826eee0a8/employees.csv"

  )

def get\_departments\_df():

  dep\_df = pd.read\_csv(

      "https://gist.githubusercontent.com/kevin336/5ea0e96813aa88871c20d315b5"

        "bf445c/raw/d8fcf5c2630ba12dd8802a2cdd5480621b6a0ea6/departments.csv"

  )

  dep\_df = dep\_df.rename(columns={"DEPARTMENT\_ID": "DEPARTMENT\_IDENTIFIER"})

  return dep\_df

employees = get\_employees\_df()

departments = get\_departments\_df()

Tasks:

# 1. Please calculate the average, median, lower and upper quartiles of an employees' salaries.

# 2. Please calculate the average salary per department. Please include the department name in the results.

# 3. Please create a new column named `SALARY\_CATEGORY` with value "low" when the salary is lower than average and "high" if is it higher or equal.

# 4. Please create another column named `SALARY\_CATEGORY\_AMONG\_DEPARTMENT` with value "low" when the employee salary is lower than average in his / her department and "high" in the other case.

# 5. Please filter the dataframe `employees` to include only the rows where `DEPARTMENT\_ID` equals to 20. Assign the result to new variable.

# 6. Please increase the salary by 10% for all employees working at the department 20.

# 7. Please check if any of the `PHONE\_NUMBER` column values are empty.