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| **Please, insert your questions respecting the Skill Code** | | | | | | | | | | | | | | | | | | | |
| # | Skill code | Question type | Question | Question choices (if applicable) | Correct answer | Link to dataset (if applicable) | Comments for revision | Question – Iteration 1 | Question choices (if applicable) – Iteration 1 | Correct answer – Interation 1 | Question – Iteration 2 | Question choices (if applicable) – Iteration 2 | Correct answer – Interation 2 | Question – Iteration 3 | Question choices (if applicable) – Iteration 3 | Correct answer – Interation 3 | Question – Iteration 4 | Question choices (if applicable) – Iteration 4 | Correct answer – Interation 4 |
|  | DS1-1 | Fill in the blanks | Plot the unemployment values of each country from 2013-2023 on a single graph with appropriate title, legend, xlabel and ylabel.    Overall, what country is the most sensitive in total unemployment over the last 10 years?    Write the country code in uppercase here: [a] |  | PAN | Tyler DS1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-1 | Fill in the blansks | Iterate over the three data frames from the previous question ('basic', 'intermediate', 'advanced') to create a subplot of unemployment for each education level.    Overall, what country is the most sensitive in basic education unemployment over the last 10 years?    Write the country code in uppercase here: [b]  Overall, what country is the most sensitive in intermediate education unemployment over the last 10 years?    Write the country code in uppercase here: [c]    Overall, what country is the most sensitive in advanced education unemployment over the last 10 years?    Write the country code in uppercase here: [d] |  | b-CAN  c-PAN  d-PAN | Tyler DS1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-1 | Fill in the blanks | Iterate over both data frames to plot youth male and youth female unemployment in each corresponding country.    Overall, who is most affected in terms of unemployment in CAN?    Write the gender in lowercase here: [e]    Overall, who is most affected in terms of unemployment in PAN?    Write the gender in lowercase here: [f]    Overall, who is most affected in terms of unemployment in the USA?    Write the gender in lowercase here: [g] |  | e-male  f-female  g-male | Tyler DS1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-1 | Fill in the blanks | We are interested in calculating a Population Growth Rate (PGR) to gain an understanding of how unemployment has changed over time:    \(PGR = \frac{ (P\_{year+1} - P\_{year})}{P\_{year}} \ x \ 100\)    Fill out the function with its corresponding parameters to calculate the PGR.    What is the PGR for 'USA' in 2014? (round to the second decimal place)    Write the PGR here: [h] |  | h-0.31 | Tyler DS1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-1 | Fill in the blanks | Using the function created in the previous question, plot the PGR values from 2014-2023 for each country.    Overall, which country had the highest PGR?    Write the country code in uppercase here: [i] |  | i-PAN | Tyler DS1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-1 |  | Please finalize the outlier removal function in Google Colab. Then, generate QQ plots for 'vote\_average' and 'vote\_count' after excluding outliers defined as points below (25th percentile - 1.5 times Interquartile Range) or above (75th percentile + 1.5 times Interquartile Range).    Additionally, identify which distribution best fits the QQ plot for these variables after outlier removal. |  |  | imdb |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-2 | Multiple choice | Choose the correct plot. For histogram number of bins =10. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-7 | ? notebook | Load the .csv file using the link provided, and name the data frame 'indicators' |  |  | Tyler DS1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-7 | ? | You have been tasked with researching about unemployment in the America, over the last 10 years, using the World Bank's `World Development Indicators` dataset. Unfortunately, the dataset contains lots of null values, so we decided to get rid of them already in the 'indicators' data frame.    From the data frame 'indicators' create a new data frame named 'unemployment' by filtering through the column indicator\_name for:    " Total unemployment as a percentage of total labor force (national estimate) |  |  | Tyler DS1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-7 | ? | Next, we are interested in figuring out if unemployment differs based on basic, intermediate, or advanced education.    From the data frame, 'indicators' create new data frames named 'basic', 'intermediate', and 'advanced' by filtering through the column indicator\_name for:    " Unemployment percentage of the total labor force with basic education "    " Unemployment percentage of the total labor force with intermediate education "    " Unemployment percentage of the total labor force with advanced education " |  |  | Tyler DS1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-7 | ? | Next, we are interested in learning about youth male and youth female unemployment.    From the data frame, 'indicators' create new data frames named 'youth\_male' and 'youth\_female' by filtering through the column indicator\_name for:    " Unemployment youth male percent of the male labor force ages 15-24 "    " Unemployment youth female percent of the female labor force ages 15-24 " |  |  | Tyler DS1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-7 | ? | Lastly, we are interested in factoring the size of the population to our unemployment analysis.    From the data frame 'indicators' create a new data frame named 'population' by filtering through the column indicator\_name for:    " Population in the largest city " |  |  | Tyler DS1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | DS1-6 | Matching | You are requested to create new functionality in a repository. The repository is already cloned to your local computer. Order the git commands you would use locally  1. git commit  2. git checkout –b new\_branch  3. git push  origin new\_branch 4. git fetch origin 5. git pull origin master | NA | 4  5  2  1  3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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