Tools for Data Analytics

Student Submission Form

To complete this assessment, you need to create a ZIP archive folder that includes all the files and code used complete the data analysis organized in three subfolders named "Part A", "Park B," and "Part C," as they related to the part of the ask, and a completed copy of this form in the main folder. You will upload your zipped folder that includes this completed form and the subfolders to Taskstream to complete your submission. Use as many rows in the tables below as necessary and remove those not used.

Student Name: Desiree Teter

WGU Student ID: #000809943

Inventory of Part A-related files (Subfolder "Part A"):

Version of Python used: 3.6

Python Libraries used (if any): csv, BeautifulSoup, SoupStrainer, requests,

urllib.request, urlopen, re, urllib.parse, urljoin

Platform Python was used on: Sublime + Windows Command Prompt

Name of the PDF file with the responses to task prompts from Part A: PartAWriteUp.PDF

Name(s) and description(s) of Python files:

Name	Extension	Description	
classscraper	ру	Script to scrape unique HTML links and output to csv	

Name(s) and description(s) of input file(s) from Part A:

Name	Extensio	Descriptio
	n	n
https://www.census.gov/programssurveys/popest.html / viewsource_httpswww.census.gov_programssurveys_pope st	html	HTML file/web page scraped by python script.

Name(s) and description(s) of output file(s) from Part A:

Name	Extension	Description
scriptrun	PNG	Screenshot of Python Script completed on Command Line
externallinks	CSV	Output of Python script

Inventory of Part B-related files (Subfolder "Part B"):

SQL Environment used: MySQL

Platform SQL was used on: MySQL Workbench 6.3 CE

Name of the PDF file with the responses to task prompts from Part B: PartBWriteUp.PDF

Name(s) and description(s) of SQL code files:

Name	Extension	Description
scriptfirsttask	sql	Script to create table with absolute mathematical differences between estimates for two years (Task I)

scriptsecondtask	sql	Script to create table with differences between estimates of 10000 or more between two datasets, rounded to 100s (Task J)	
scriptthirdtask	sql	Script to create table with differences between estimates of 10000 or more between two datasets, rounded to 10000s, with year columns (Task L)	

Name(s) and description(s) of input file(s) from Part B:

Name	Extension	Description
2016	CSV	Cleaned data for 2016
2017	CSV	Cleaned data for 2017
<u>nst-est2016-</u> <u>01.xlsx</u>	xlsx	Raw data for 2016
<u>nst-est2017-</u> <u>01.xlsx</u>	xlsx	Raw data for 2017

Name(s) and description(s) of output file(s) from Part B:

Name	Extension	Description
absdifffinal	csv	CSV contaiing output for task L table of differences between estiamtes > 10000 rounded to 10000s
absdiff	csv	CSV containing output for Task J table of differences between estimates > 10000, rounded to 100s
tabletwo	csv	CSV containing output for task I table of absolute differences between two years estimates

Inventory of Part C-related files (Subfolder "Part C"):

R version used: R version 3.4.2 (2017-09-28)

R packages used (if any): bigmemory, psych, pastecs, dplyr, reshape2

Platform R was used on: RStudio

Name of the PDF file with the responses to task prompts from Part C: PartCWriteUp.pdf

Name(s) and description(s) of R script(s):

Name	Extension	Description
script	R	Script containing all assignment tasks, comments added

Name(s) and description(s) of input file(s) from Part B:

Name	Extension	Description
statesestimates2	.csv	Cleaned data
<u>nst-est2017-</u> <u>01.xlsx</u>	xlsx	Raw data

Name(s) and description(s) of output file(s) from Part C:

Name	Extension	Description
naturalhist	png	Histogram for task O
fivehundredthouhist	png	Histogram for task O
regressionline	png	Plotted regression line for linear model for recent years population estimates, Task Q
estimatestatdescription	png	Statistical summary of results Task P

2020prediction	png	Plotted regression line for
		predictions for 2020 based Task M