Database Design - Exam #2

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* Required

Pandas

The following questions refer to a data set included in a companion GitHub repository. In order to answer the questions below, you must download the GitHub repository to your own computer and write code into the Jupyter Notebook located therein. Your code in the notebook must be pushed to GitHub and must show how you arrived at the answers to each question, and those answers must also be entered below and submitted in this form.

Have the Units been standardized in the original data set, such that the counts in all rows use the same units of measurement? * 5 points

- ○ Yes
- ◉ No

Without changing anything, what data type are the yearly count columns (e.g. « df['Y1961'] ») in the original « df » DataFrame immediately after import? * 5 points

- ○ datetime64
- ◉ float64
- ○ int64
- ○ object
- ○ * None of the above *

Which year had the lowest production of pigs in the United States? * 5 points

- [ ] 1961
- [x] 1976
- [ ] 2019
- [ ] 2001
- [ ] None of these options

What was the lowest production of pigs in the United States in a year? * 5 points

- [ ] 49,267,008,000
- [ ] 55,560,000
- [ ] 55,560,000,000
- [x] 49,267,008
- [ ] None of the options

How many different Area column values are there in this data set? * 5 points

- [x] 244
- [ ] 294
- [ ] 3044
- [ ] 3192

What is the number of goats produced in the United States in 2019? * 5 points

- [x] 2,622,000
- [ ] 3,473,000
- [ ] 7,852,000
- [ ] 2,622,000,000
- [ ] 3,473,000,000

How many entries for United States have actual counts of items for the year 2019? * 5 points

- [ ] 14
- [x] 6
- [ ] 8
- [ ] 10

What is the average increase per year in the total number of pigs in the United States between 2009 and 2019? * 5 points

- [ ] 13,770,400
- [x] 1,377,040
- [ ] 23,097,600
- [ ] 2,309,760
- [ ] 1,377,040,000

Which area has the lowest increase in the total number of pigs between 1961 and 2019? (This can include areas with overall decrease as well.) * 5 points

- ○ Algeria
- ◉ Eastern Europe
- ○ United States
- ○ Albania
- ○ Hungary

Which command would create a pandas DataFrame that contains the data from only those rows related to chickens? * 5 points

- ○ df['Item']['Chickens']
- ○ df['Chickens']
- ○ df['Item'] == 'Chickens'
- ◉ df[df['Item'] == 'Chickens']
- ○ df.loc['Items'][' Chickens']
- ○ * None of the above *

How many columns are there in the original DataFrame? 5 points

- ○ 100
- ○ 113
- ◉ 125
- ○ 98

Clear selection

How many chickens were produced in the United States in the year 2019? * 5 points

- ○ 2,446
- ○ 1,972,256
- ○ 5,862,543
- ○ 2,446,000
- ◉ 1,972,256,000
- ○ 5,862,543,000

How many livestock animals were produced in the USA in the year 2019? * 5 points

- ○ 4,711,968
- ○ 301,955,012
- ○ 1,566,348,344
- ○ 2,403,502,070
- ◉ 4,714,779,770
- ○ 13,969,703,540
- ○ 301,955,012,000
- ○ 2,400,690,070,000
- ○ 4,711,967,770,000
- ○ 13,969,703,540,000

Which area produced the largest number of horses in 2019? * 5 points

- ○ Argentina
- ○ United States of America
- ○ Eastern Europe
- ○ Mexico
- ◉ None of the options

Which command would remove the 'Area Code' column such that the DataFrame referred to by the variable « df_chicks » would not include the 'Area Code' column in subsequent operations. * 5 points

- ○ df_chicks.drop('Area Code')
- ○ df_chicks.drop('Area Code', axis=1)
- ◉ del df_chicks['Area Code']
- ○ * None of the above *

How many entries contain information about the United States of America? * 5 points

- ○ 244
- ○ 3192
- ○ 0
- ◉ 14
- ○ 10

What individual animal did the United States produce the most (in count) in the year 2015? * 5 points

- ○ Chickens
- ○ Pigs
- ○ Asses
- ○ Cattle
- ◉ None of the options

What is the worldwide increase in the total number of ducks from the year 1961 to the year 2019? * 5 points

- ○ 4,918,315,000
- ○ 4,918,315
- ○ 3,865,000
- ○ 3,865
- ◉ None of the options

Assuming the variable « df_chicks » refers to a DataFrame containing only those rows from the original data set related to chickens, with no other modifications, which of the following commands would create a data structure including each Area of the world and the total number of chickens produced each year in that Area. * 5 points

- ○ df_chicks.groupby('Area').count( )
- ◉ df_chicks.groupby('Area').sum( )
- ○ df_chicks['Area'].describe( )
- ○ df_chicks['Area'].info( )
- ○ * None of the above *

How many different kinds of Items are included in the data? (You can include animal groups, such as 'Cattle and Buffaloes`, `Poultry Birds`, and `Sheep and Goats` in your answer) * 5 points

- ○ 20
- ◉ 21
- ○ 19
- ○ 14
- ○ 10

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