Week 7.2 Quiz

Question 1

1 point possible (graded)

Series objects in pandas are one-dimensional arrays that can hold any data type

- ○ True

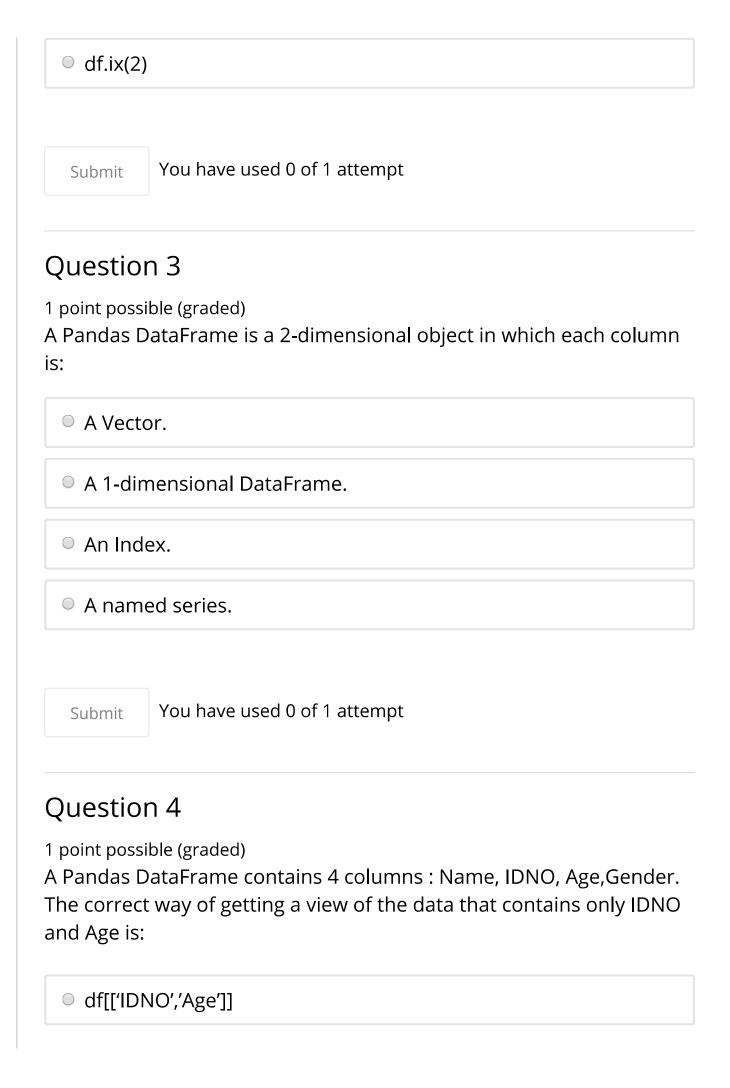- ○ False

Submit	You have used 0 of 1 attempt

Question 2

1 point possible (graded)

Which one of the following is the correct way to get data from row 2 (assuming it exists in the dataframe) from a pandas dataframe df:

- ○ df[2]

- ○ df.row(2)

- ○ df.ix[2]

○ df.ix(2)

Question 3

1 point possible (graded)

A Pandas DataFrame is a 2-dimensional object in which each column is:

○ A Vector.

○ A 1-dimensional DataFrame.

○ An Index.

○ A named series.

Question 4

1 point possible (graded)

A Pandas DataFrame contains 4 columns : Name, IDNO, Age,Gender. The correct way of getting a view of the data that contains only IDNO and Age is:

○ df[['IDNO','Age']]

○ df['IDNO','Age']

○ df['IDNO'] + df['Age']

○ All three of the above will correctly return the view

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Question 5

1 point possible (graded)

Consider the following Python dictionary *data* and Python list *labels*:

```
import pandas as pd
data = {'nationality': ['UK', 'China', 'US', 'UK', 'Japan',
'China', 'UK', 'UK', 'Japan', 'US'],
        'age': [25, 30, 15, np.nan, 25, 22, np.nan,45 ,18, 33],
        'type': [1, 3, 2, 3, 2, 3, 1, 1, 2, 1],
        'diabetes': ['yes', 'yes', 'no', 'yes', 'no', 'no',
'no', 'yes', 'no', 'no']}

labels = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j']
```

Create a DataFrame *df* from this dictionary *data* which has the index *labels*.

```
 Please follow the instructions to answer the question:
     1.Delete every blank space that is not necessary (e.g.,
x==y not x == y)
     2.You only need to fill in the blank
     3.Use single quotes if your answer needs to use quotes
     4.The resulting dataframe must use labels as an index
     5.Start with 'df='
```

Question 6

1 point possible (graded)

Fill in the blank to select only the rows where the age is greater than 20.

```
df[_____]
```

```
 Please follow the instructions to answer the question:
      1.Delete every blank space that is not necessary (e.g.,
 x==y not x == y)
      2.You only need to fill in the blank
      3.Use single quotes for str types, not double quotes
```

Question 7

1 point possible (graded)

Fill in the blank to select the rows the age is between 20 and 30 (inclusive).

```
df[_____]
```

```
 Please follow the instructions to answer the question:
      1.Delete every blank space that is not necessary (e.g.,
x==y not x == y)
      2.You only need to fill in the blank
      3.Use single quotes
      4.Use "between(a,b)" in your answer
      5.Use df['age'] instead of df.age
```

Submit   You have used 0 of 6 attempts

Question 8

1 point possible (graded)

Fill in the blank to calculate the mean age for patients from different countries in df.

```
 df.groupby('nationality')_____
```

```
 Please follow the instructions to answer the question:
      1.Delete every blank space that is not necessary (e.g.,
x==y not x == y)
      2.You only need to fill in the blank
      3.Use single quotes
      4.Use "mean()" in your answer
      5.Use df['age'] instead of df.age
```

Submit   You have used 0 of 6 attempts

Question 9

1 point possible (graded)

Fill in the blank to sort df first by the values in the 'age' in decending order, then by the value in the 'type' column in ascending order.

```
df.sort_values(_____)
```

Please follow the instructions to answer the question:
        1.Delete every blank space that is not necessary (e.g., x==y not x == y)
        2.You only need to fill in the blank
        3.Use single quotes

Submit   You have used 0 of 6 attempts

Question 10

1 point possible (graded)

Fill in the blank to change the 'US' entries to 'United States' in the 'nationality' column.

```
df['nationality'] = df['nationality']._____
```

Please follow the instructions to answer the question:
        1.Delete every blank space that is not necessary (e.g., x==y not x == y)
        2.You only need to fill in the blank
        3.Use single quotes
        4.Use 'replace(a,b)' in your answer

Submit

You have used 0 of 6 attempts

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