DT 2025 - Quiz 6 - 21/5/2025 Python 2

The time for the quiz is 10 minutes

* Obbligato * Questo m	oria nodulo registrerà il tuo nome, inserire il nome.		
1 LAST	T NAME and First Name *		
2			
Cons	sider this Pandas DataFrame <i>df.</i> What is the number of rows	planet	value
Cons of th	ne DataFrame after running the following command:	planet Mars	value
Cons of th df.dr	ne DataFrame after running the following command: rop_duplicates(inplace=True, subset='planet')		
Cons of th df.dr	ne DataFrame after running the following command:	Mars	1
Cons of th df.dr	ne DataFrame after running the following command: rop_duplicates(inplace=True, subset='planet')	Mars Venus	1 37
Cons of th df.dr	ne DataFrame after running the following command: rop_duplicates(inplace=True, subset='planet')	Mars Venus Jupiter	1 37 0

What is the value of the variable *res* at the end of the execution of this code snippet?

* (1.5 punti)

/	١.	\sim

4.5

O 27

4

A pandas dataframe *df* has three columns: '*Name*', '*City*', and '*Age*'. Which is the right expression to drop the column '*Age*'?

* (1.5 punti)

```
df.drop('Age')
```

df = df.drop(columns=['Age'])

del 'age'

What is the Pandas equivalent of the following SQL query?

* (2 punti)

```
SELECT species, MAX(petal_width) AS petal_width
FROM iris
GROUP BY species;
```

```
iris.species.groupby().max('petal_witdh)

iris.max('petal_width').groupby('species')

iris.groupby('species').petal_width.max()

Consider this definition of Pandas DataFrames. How many rows has the DataFrame defined by:

df1.merge(df2, on='key')
```

```
16
```

* (2 punti)

() 2

1

Suppose there is a Pandas DataFrame *df* with the following columns:
'city', 'country', 'date', 'measure'

What is the correct way of counting the number of French cities reported in the DataFrame?

* (1.5 punti)

```
df[ df['country'] == 'France' ]['city'].nunique()

df['France'].city.nunique()
```

df[df['city'].isin('France')].nunique()

8

What is the value of the variable *output* at the end of the for loop?

* (1.5 punti)

```
output = 0

for i in range(1, 10):
   output = i
   if i % 5 == 0: break
```

O 10

() 5

O 0

9

Consider a Python dictionary d. Which of the following is True?

* (1.5 punti)

len(d.items()) != 0

len(d.keys()) != len(d.values())

set(d.keys()) == d.keys()

The image shows the output of an API returning details about the **astronauts** currently in space. Based on the output, which of the following calculates the number of **spacecrafts** currently in space?

* (2 punti)

\bigcirc	len(set([p['craft'] for p in res['people']]))
\bigcirc	res['number']
\bigcirc	len([p['name'] for p in res['people']])

Questo contenuto non è stato creato né approvato da Microsoft. I dati che invii verranno recapitati al proprietario del modulo.

