

Quiz

Pandas:

1. Which of the following is the primary data structure in the Pandas library?

- a) List
- b) Dictionary
- c) DataFrame
- d) Tuple

Answer: c) DataFrame

2. What method is used to read a CSV file into a Pandas DataFrame?

- a) `pd.load_csv()`
- b) `pd.read_csv()`
- c) `pd.import_csv()`
- d) `pd.open_csv()`

Answer: b) `pd.read_csv()`

3. How can you display the first 5 rows of a DataFrame `df`?

- a) `df.show(5)`
- b) `df.head(5)`
- c) `df.first(5)`
- d) `df.top(5)`

Answer: b) `df.head(5)`

4. What is the default axis for the `drop()` function in a Pandas DataFrame?

- a) 0 (rows)
- b) 1 (columns)
- c) 2 (cells)
- d) None of the above

Answer: a) 0 (rows)

5. Which of the following function is used to get a summary of DataFrame, including the count, mean, and standard deviation of numerical columns?

- a) df.info()
- b) df.describe()
- c) df.sum()
- d) df.mean()

Answer: b) df.describe()

6. How can you select a column named **age** from a DataFrame **df**?

- a) df.age()
- b) df['age']
- c) df.select('age')
- d) df.column('age')

Answer: b) df['age']

7. What method is used to check for missing values in a DataFrame?

- a) df.has_null()
- b) df.isna()
- c) df.isempty()
- d) df.check_na()

Answer: b) df.isna()

8. Which method is used to concatenate two DataFrames vertically?

- a) pd.concat()
- b) pd.merge()
- c) pd.append()
- d) pd.join()

Answer: a) pd.concat()

9. In a DataFrame, how do you sort values based on a specific column **age**?

- a) `df.sort_by('age')`
- b) `df.order_by('age')`
- c) `df.sort_values(by='age')`
- d) `df.arrange('age')`

Answer: c) `df.sort_values(by='age')`

10. What is the output of the following code snippet?

```
df['age'] > 30
```

- a) A DataFrame
- b) A Series of Boolean values
- c) A list of integers
- d) An error message

Answer: b) A Series of Boolean values