

Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 70%. We keep your highest score.

Next item →

1. Which of the following statements establishes the connection between a Jupyter Notebook SQL extension and an SQLite database ‘EMP.db’?

1 / 1 point

- ☒ %sql sqlite:///EMP.db
- ☐ %sql
- ☐ sqlite:///EMP.db
- ☐ %sql sqlite:/EMP.db
- ☐ %sql sqlite3://EMP.db

☒ **Correct**
Correct! This is the proper approach to establish the required connection.

2. Which two of the following can be stated as uses of cell magic in Jupyter Notebooks?

1 / 1 point

- ☒ Coding in Jupyter notebook using a programming language other than Python

☒ **Correct**
Partially correct. There are more options that are correct.

- ☐ Converting Jupyter notebook’s default programming language to a desired one.
- ☒ Timing a complete cell block as per requirement.

☒ **Correct**
Partially correct. There are more options that are correct.

- ☐ Load an SQL database to a jupyter notebook

3. What would be the outcome of the following python code

1 / 1 point

- ```
import sqlite3

import pandas as pd

conn = sqlite3.connect('HR.db')

data = pd.read_csv('./employees.csv')

data.to_sql('Employees', conn)
```
- ☒ The csv file is read and converted into an SQL table ‘Employees’ under the HR database
  - ☐ The CSV file is converted to an SQL file
  - ☐ The code throws a syntax error message.
  - ☐ CSV file is saved to the HR.db file created by the code.

☒ **Correct**  
Correct. Data from the csv file is saved to an SQL table.

4. What would be the correct way to query a database table using python? Assume that output in any form is acceptable. Choose the 2 correct options.

1 / 1 point

- ☒ out = pandas.read\_sql(query\_statement, connection\_object)

☒ **Correct**  
Partially correct. There are more options that are correct.

- ☐ out = dataframe.read\_sql(query\_statement, connection\_object)
  - ☒ cursor = connection.execute(query\_statement)
- ```
out = cursor.fetchall()
```

☒ **Correct**
Partially correct. There are more options that are correct.

- ☐ out = connection.execute(query_statement)

5. Which of the following statements would you use to perform a statistical analysis of data in a pandas dataframe ‘df’?

1 / 1 point

- ☒ df.describe()
- ☐ df.head()
- ☐ df.tail()
- ☐ df.info()

☒ **Correct**
Correct. describe method responds with a statistical analysis of the data in df.