Graded Quiz: Accessing databases using Python

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	
	O sqlite:///EMP.db	
	○ %sql sqlite:/EMP.db	
	○ %sql sqlite3://EMP.db	
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
	<pre>out = pandas.read_sql(query_statement, connection_object)</pre>	
	⊘ 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. 	
	<pre>out = connection.execute(query_statement)</pre>	
5	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()	
	O df.head()	
	O df.tail()	
	O df.info()	
	 Correct Correct. describe method responds with a statistical analysis of the data in df. 	