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Using Encoded Data in Python 3

Latest Submission Grade 100%

1. What is the most common Unicode encoding when moving data between systems?

1 / 1 point

✔ Correct

2. What is the decimal (Base-10) numeric value for the upper case letter "G" in the ASCII character set?

1 / 1 point

✔ Correct

3. What word does the following sequence of numbers represent in ASCII:

108, 105, 115, 116

1 / 1 point

✔ Correct

4. How are strings stored internally in Python 3?

1 / 1 point

✔ Correct

5. When reading data across the network (i.e. from a URL) in Python 3, what method must be used to convert it to the internal format used by strings?

1 / 1 point

✔ Correct

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Object Oriented Programming

Latest Submission Grade 100%

1. Which came first, the instance or the class?

1 / 1 point

✔ Correct

2. In Object Oriented Programming, what is another name for the "attributes" of an object?

1 / 1 point

✔ Correct

3. At the moment of creation of a new object, Python looks at the _____ definition to define the structure and capabilities of the newly created object.

1 / 1 point

✔ Correct

4. Which of the following is **NOT** a good synonym for "class" in Python?

1 / 1 point

✔ Correct

5. What does this Python statement do if PartyAnimal is a class?

1 / 1 point

```
1 zap = PartyAnimal()
```

✔ Correct

6. What is the syntax to look up the fullname attribute in an object stored in the variable colleen?

1 / 1 point

✔ Correct



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5. What does this Python statement do if PartyAnimal is a class?

1 / 1 point

```
1 | zap = PartyAnimal()
```

✓ Correct

6. What is the syntax to look up the fullname attribute in an object stored in the variable colleen?

1 / 1 point

✓ Correct

7. Which of these statements is used to indicate that class A will inherit all the features of class B?

1 / 1 point

✓ Correct

8. What keyword is used to indicate the start of a method in a Python class?

1 / 1 point

✓ Correct

9. What is "self" typically used for in a Python method within a class?

1 / 1 point

✓ Correct

10. What does the Python dir() function show when we pass an object into it as a parameter?


1 / 1 point

✓ Correct

11. Which of the following is rarely used in Object Oriented Programming?

1 / 1 point

✓ Correct

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Single-Table SQL

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1. Structured Query Language (SQL) is used to (check all that apply)

1 / 1 point

 **Correct**

2. Which of these is the right syntax to make a new table?

1 / 1 point

 **Correct**

3. Which SQL command is used to insert a new row into a table?

1 / 1 point

 **Correct**

4. Which command is used to retrieve all records from a table?

1 / 1 point

 **Correct**

5. Which keyword will cause the results of the query to be displayed in sorted order?

1 / 1 point

 **Correct**

6. In database terminology, another word for table is

1 / 1 point

 **Correct**

7. In a typical online production environment, who has direct access to the production database?

1 / 1 point



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5. Which keyword will cause the results of the query to be displayed in sorted order?

1 / 1 point

✓ Correct

6. In database terminology, another word for table is

1 / 1 point

✓ Correct

7. In a typical online production environment, who has direct access to the production database?

1 / 1 point

✓ Correct

8. Which of the following is the database software used in this class?

1 / 1 point

✓ Correct

9. What happens if a DELETE command is run on a table without a WHERE clause?

1 / 1 point

✓ Correct

10. Which of the following commands would update a column named "name" in a table named "Users"?

1 / 1 point

✓ Correct

11. What does this SQL command do?

1 / 1 point

```
1 SELECT COUNT(*) FROM Users
```

Hint: This is not from the lecture

✓ Correct

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Multi-Table Relational SQL

Latest Submission Grade 100%

1. What is the primary added value of relational databases over flat files?

1 / 1 point

✔ Correct

2. What is the purpose of a primary key?

1 / 1 point

✔ Correct

3. Which of the following is NOT a good rule to follow when developing a database model?

1 / 1 point

✔ Correct

4. If our user interface (i.e., like iTunes) has repeated strings on one column of the user interface, how should we model this properly in a database?

1 / 1 point

✔ Correct

5. Which of the following is the label we give a column that the "outside world" uses to look up a particular row?

1 / 1 point

✔ Correct

6. What is the label we give to a column that is an integer and used to point to a row in a different table?

1 / 1 point

✔ Correct

7. What SQLite keyword is added to primary keys in a CREATE TABLE statement to indicate that the database is to provide a value for the column when records are inserted?

1 / 1 point



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1 / 1 point

✓ Correct

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1 / 1 point

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1 / 1 point

✓ Correct

7. What SQLite keyword is added to primary keys in a CREATE TABLE statement to indicate that the database is to provide a value for the column when records are inserted?

1 / 1 point

✓ Correct

8. What is the SQL keyword that reconnects rows that have foreign keys with the corresponding data in the table that the foreign key points to?

1 / 1 point

✓ Correct

9. What happens when you JOIN two tables together without an ON clause?

1 / 1 point

✓ Correct

10. When you are doing a SELECT with a JOIN across multiple tables with identical column names, how do you distinguish the column names?

1 / 1 point

✓ Correct

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Many-to-Many Relationships and Python

Latest Submission Grade 100%

1. How do we model a many-to-many relationship between two database tables?

1 / 1 point

✔ **Correct**

2. In Python, what is a database "cursor" most like?

1 / 1 point

✔ **Correct**

3. What method do you call in an SQLite cursor object in Python to run an SQL command?

1 / 1 point

✔ **Correct**

4. In the following SQL,

1 / 1 point

```
1 cur.execute('SELECT count FROM Counts WHERE org = ? ', (org, ))
```

what is the purpose of the "?"?

✔ **Correct**

5. In the following Python code sequence (assuming cur is a SQLite cursor object),

1 / 1 point

```
1 cur.execute('SELECT count FROM Counts WHERE org = ? ', (org, ))
2 row = cur.fetchone()
```

what is the value in row if no rows match the WHERE clause?

✔ **Correct**



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```
1 cur.execute('SELECT count FROM Counts WHERE org = ? ', (org, ))
2 row = cur.fetchone()
```

what is the value in row if no rows match the WHERE clause?

✓ Correct

6. What does the LIMIT clause in the following SQL accomplish?

1 / 1 point

```
1 SELECT org, count FROM Counts
2 ORDER BY count DESC LIMIT 10
```

✓ Correct

7. What does the executemany() method in the Python SQLite cursor object do that the normal execute() method does not do?

1 / 1 point

✓ Correct

8. What is the purpose of "OR IGNORE" in the following SQL:

1 / 1 point

```
1 INSERT OR IGNORE INTO Course (title) VALUES ( ? )
```

✓ Correct

9. For the following Python code to work, what must be added to the title column in the CREATE TABLE statement for the Course table:

1 / 1 point

```
1 cur.execute('INSERT OR IGNORE INTO Course (title)
2 VALUES ( ? )', ( title, ) )
3 cur.execute('SELECT id FROM Course WHERE title = ? ',
4 (title, ))
5 course_id = cur.fetchone()[0]
```

✓ Correct