

# Many-to-Many Relationships and Python

TOTAL POINTS 9

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

1 point

- ☐ We use a BLOB column in both tables
- ☐ We add 10 foreign keys to each table with names like artist\_id\_1, artist\_id2, etc.
- ☒ We add a table with two foreign keys
- ☐ We use the ARRAY column type in both of the tables

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

1 point

- ☐ A method within a class
- ☐ A function
- ☐ A Python dictionary
- ☒ A file handle

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

1 point

- ☐ run()
- ☐ socket()
- ☐ send()
- ☒ execute()

4. In the following SQL,

1 point

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

what is the purpose of the "?"?

- ☐ It is a syntax error
- ☐ It is a search wildcard
- ☒ It is a placeholder for the contents of the "org" variable
- ☐ It allows more than one boolean operation in the WHERE clause

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

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?

- ☐ -1
- ☐ An empty dictionary
- ☒ None
- ☐ An empty list

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

1 point

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

- ☒ It only retrieves the first 10 rows from the table
- ☐ It only sorts on the first 10 characters of the column
- ☐ It reverses the sort order if there are more than 10 rows
- ☐ It avoids reading data from any table other than Counts

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

1 point

- ☐ It allows embedded JavaScript to be executed
- ☐ It allows embeded Python to be executed
- ☐ It allows database tables to be created
- ☒ It allows multiple SQL statements separated by semicolons

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

1 point

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

- ☒ It makes sure that if a particular title is already in the table, there are no duplicate rows inserted
- ☐ It ignores errors in the SQL syntax for the statement
- ☐ It updates the created\_at value if the title already exists in the table
- ☐ It ignores any foreign key constraint errors

9. What do we generally avoid in a many-to-many junction table?

1 point

- ☒ An AUTOINCREMENT primary key column
- ☒ A logical key
- ☐ Two foreign keys
- ☐ Data items specific to the many-to-many relationship

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