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1. ✔ How do we model a many-to-many relationship between two database tables?
   - ○ We add 10 foreign keys to each table with names like artict_id_1, artist_id2, etc.
   - ● We add a table with two foreign keys
   - ○ We use the ARRAY column type in both of the tables
   - ○ We use a BLOB column in both tables

2. ✔ In Python, what is a database "cursor" most like?
   - ○ A method within a class
   - ● A file handle
   - ○ A Python dictionary
   - ○ A function

3. ✔ What method do you call in an SQLIte cursor object in Python to run an SQL command?
   - ○ send()
   - ● execute()
   - ○ run()
   - ○ socket()

4. ✔ In the following SQL,

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

   what is the purpose of the "?"?
   - ○ It is a syntax error
   - ● It is a placeholder for the contents of the "org" variable
   - ○ It is a search wildcard
   - ○ 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),

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

   what is the value in row if no rows match the WHERE clause?
   - ○ An empty dictionary
   - ● None
   - ○ -1
   - ○ An empty list

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

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

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

7. ✔ What does the executescript() method in the Python SQLite cursor object do that the normal execute() method does not do?
   - ○ It allows embedded Python to be executed
   - ● It allows multiple SQL statements separated by semicolons
   - ○ It allows embedded JavaScript to be executed
   - ○ It allows database tables to be created

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

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

   - ○ It updates the created_at value if the title already exists in the table
   - ● 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 ignores any foreign key constraint errors

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:

   ```
   cur.execute('''INSERT OR IGNORE INTO Course (title)
       VALUES ( ? )''', ( title, ) )
   cur.execute('SELECT id FROM Course WHERE title = ? ',
       (title, ))
   ```

   course_id = cur.fetchone()[0]
   - ○ A PRIMARY KEY indication
   - ● A UNIQUE constraint
   - ○ A NOT NULL constraint
   - ○ An AUTOINCREMENT indication

10. ✔ What do we generally avoid in a many-to-many junction table?
    - ☐ Two foreign keys
    - ☑ An AUTOINCREMENT primary key column
    - ☑ A logical key
    - ☐ Data items specific to the many-to-many relationship

1.
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