To do: Make a submission

Opened: Thursday, 26 September 2024, 12:05 AM
Due: Thursday, 3 October 2024, 11:55 PM

This assignment will assess your knowledge and skills about:

1. Implementing simple database constructs using the SQL language.

Assignment Information

You have been assigned to develop a simple database system to manage a library.

Your task is to:

a. Create a database schema for managing a library system with the following entities:
   - Books (with attributes: ISBN, Title, Author, Genre, and Quantity)
   - Members (with attributes: MemberID, Name, Email, and Phone)
   - Loans (with attributes: LoanID, MemberID, ISBN, LoanDate, and ReturnDate)

b. Implement SQL queries to perform the following operations (Please provide screenshots displaying all records in the mentioned relations):
   - Insert new records into the Books, Members, and Loans tables.
   - Retrieve all information about books borrowed by a specific member.
   - Update the quantity of a particular book in the Books table.
   - Delete a member record from the Members table.

c. Document your SQL script with comments to explain the purpose of each statement and provide a brief overview of the database schema.

Instruction for SQL tool:

- You may install a Relational DBMS of your choice.

- You can also download the software using the following link: https://dev.mysql.com/downloads/installer/ and carry out the given assignment.

- If required, you may use online SQL Editor like: https://www.mycompiler.io/online-sql-editor, https://www.programiz.com/sql/online-compiler/

Submission Instructions

- Read the **rubric** on how you are going to be graded before you start to work on this assignment.

- Please provide **screenshots** displaying all records in the mentioned relations as asked in part (b).

- Submit the assignment in **MS Word** or **PDF file.**

- Your assignment should be:
   - At least **250** words and not more than **750** words (not including the reference list or the title).
   - **Double-spaced** in **Times New Roman** font, which is no greater than **12** points.

- Support your arguments with **sources** and **evidence**.

- Use high-quality, credible, relevant sources to develop ideas appropriate for the discipline and genre of writing. Explore additional details on the **INFORMATION LITERACY** page (located on the right-hand side of this page). Please consider using

references and in-text citations from textbooks and any other sources used in this assignment from our library.

This assignment will be assessed by your instructor using the rubric below.

Add submission

Submission status

Attempt number	This is attempt 1.
Submission status	No submissions have been made yet
Grading status	Not graded
Time remaining	13 hours 34 mins remaining
Last modified	-
Submission comments	▸ Comments (0)

Grading criteria

a. Database Schema Creation	Creates a well-structured and normalized database schema for managing a library system with all the entities and their respective attributes. **30 points**	Creates a database schema for managing a library system by including two entities and some of their attributes. **24 points**	Creates a database schema for managing a library system by including one entity and its attributes. **15 points**	Provides no information/ Incorrect information. **0 points**
b. Implementation of SQL Queries	Successfully implements all specified SQL queries with all relevant screenshots. **30 points**	Implements SQL queries for most of the specified operations with some syntax errors or inefficiencies with some screenshots. **24 points**	Partially implements the intended operations with significant errors. Missed including the screenshots. **15 points**	Provides no information/ Incorrect information. **0 points**
c. Documentation with Comments	Provides well-explained comments throughout the SQL script, explaining the purpose of each statement and a comprehensive overview of the database schema. **30 points**	Includes comments in the SQL script to explain the purpose of most statements and lacks discussion in explaining overview of the database schema. **24 points**	Includes some comments in the SQL script but missed to include the purpose of each statement and an overview. **15 points**	Provides no information/ Incorrect information. **0 points**

Sources and Evidence	Demonstrates skillful use of high-quality, credible, relevant sources to develop ideas that are appropriate for the discipline and genre of the writing. **10 points**	Demonstrates consistent use of credible, relevant sources to support ideas that are situated within the discipline and genre of the writing. **8 points**	Demonstrates an attempt to use credible and/or relevant sources to support ideas that are appropriate for the discipline and genre of the writing. **5 points**	Demonstrates an attempt to use sources to support ideas in writing. Yet, most sources provided are not credible / relevant to the discipline and genre. **2 points**	Used no sources to support ideas in writing. **0 points**