CSE 3102

Department of Computer Science and Engineering

Lab5-6: Database Schema for a Student Rental Library Project

Develop the following relational databases and complte SQL queries for your **rental library project**. Consider the appropriate constraints while designing the databases. The underline attributes are primary keys for the corresponding relational database.

Database Schemas:

Student(Stud_no **:** *string***,** Stud_name: *string*)

Membership(Mem_no: *string*, Stud_no**:** *string*)

Book(book_no: *string*, book_name: *string*, author: *string*)

Iss_rec(iss_no: *integer*, iss_date: *date*, Mem_no: *string*, book_no: *string*)

For the above schema, perform the following—

1. Create the tables defined by the above schemas. Impose constraints to check the student no is started with '**C**'; take **present date** as the **default value** for **iss_date.**
2. Insert around **10 records** in each of the tables
3. List all the **student** and **Book name, Author** issued on a **specific date** (e.g., 01-01-2013)
4. List the details of **students** who borrowed book whose author is **Tanenbum**
5. Give a count of how **many books** have been borrowed by each student
6. List the **students** who reached the borrowed **limit 3** (i.e., none can borrow more than 3 books)
7. Give a list of books taken by student with **stud_no** C033002
8. List the book details which are **issued as of today.**

Instruction:

1. Keep paper and pen and records the table as appropriate and map them according to the query
2. Do debug several time for the self assessment
3. Sign/show up the paper works before final assessment

Write your query on plain text on paper and Text/Notepad for assessment

Special note: All reports must be hand written