**Database project**

**【Experimental purpose】**

Please design a library database website for SCUT.

**【Requirement】**

**Data assumption:**

* Library owns many books. There may be several copies of the same book, each with its own unique number or ID.
* Books are written by authors, which could be searched by database.
* Books could be borrowed for a particular period (e.g., 2 weeks, months…).
* Readers can borrow a limited number of books, which could be returned separately.

**Functions:**

* Only Students and staff in the university can register reader accounts. The account is their student ID or staff ID.
* Readers who do not return books in time, will have bad records and need to pay a certain expense.
* Readers can recover their records after returning the books and paying the expense.
* Readers can search the books, and borrow books if no bad records.
* Readers can make comments on the books they borrowed.
* Readers can modify personal information, except their IDs.
* Administrators can view all transaction records.
* Administrators can send reminding messages to the readers.

**Related tools:**

* Database: SQL Server, Oracle, SQLite etc.
* Programming language: python, java, h5, php etc.

**Submitted materials:**

* Program manual. (electronic)
* Source Code. (electronic)
* Database design document, SQL commands creating tables, views, etc. (electronic)

**Submitted time & address:**

* Firm deadline: Dec. 19th, 2021.
* submission: 1) International students: [xmwang@scut.edu.cn](mailto:xmwang@scut.edu.cn) (through Monitor); 2) Chinese students: submitted to teaching online system(教学在线, if not in this system, pls contact me).

Note: freely form a group with 3 or 4 people, but the submitted materials cannot be exactly the same. The document should specify the work that you have done in the group.