Library Management System

- 1. Design the schema for the following tables:
 - a. book(book id, title,category,author);
 - b. student(student id,name,dept name,year,semester);
 - c. issue(student id,book id,issue date,return date);
- 2. Load data into these tables:
 - a. 2-3 tuples in the book table.
 - b. 2-3 tuples in the student table.
 - c. 5-6 or more tuples in issue table ensuring that the queries below will get some results.
- 3. Create a Java-J2EE project and do the following:
 - a. Home.jsp file to give two options "Add a book" and "Issue a book". This should redirect to corresponding jsp file when clicked.
 - b. Add.jsp file to take input as book_id,title,category,author.Then check if the book_id already exists,otherwise add these book details to the book table using a servlet named AddServlet.java. Print "Book is added successfully" after adding in the new jsp page named AddResult.jsp.
 - c. Issue.jsp file to take input as student_id,book_id,issue_date.Then add these issue details in the issue table if and only if a student exists(check student_id in student table) using a servlet named IssueServlet.java. Print "Book issued successfully" after adding in the new jsp page named IssueResult.jsp.

(Here return date can be null)

Submissions

- 1. .sql file for creating and loading data (question 1 & 2).
- 2. Complete project with screenshots as .zip file named with roll number (question 3).
- 3. Submission due time: Tuesday (3rd November) 8:00 am
- 4. We will run plagiarism for all the submissions.

Note:

- 1. Servlet Mapping snippet code should be added in the web.xml (for both AddServlet and IssueServelt).
- 2. Home jsp should be added in the welcome-file-list tag of web.xml.
- 3. Postgres jdbc jar file should be added in the build path and in the lib folder of web-inf.