**Project 2** - Using PL/SQL and JDBC to Implement Student Registration System

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Packages for the Project 2:

proj2\_procedure:

It includes the procedure’s created for the project

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Procedures for Project 2:

procedure show\_students:

This procedure is used to show the students table from the database.

procedure show\_courses:

This procedure is used to show the courses table from the database.

procedure show\_prereq:

This procedure is used to show the pre-requisites table from the database.

procedure show\_classes:

This procedure is used to show the classes table from the database.

procedure show\_enrollments:

This procedure is used to show the enrollments table from the database.

procedure show\_logs:

This procedure is used to show the logs table from the database.

procedure insert\_student:

This procedure takes sid, firstname, lastname, status, gpa and email as input and inserts the tuple into the student table in the database.

procedure student\_info:

This procedure takes sid as input and displays sid, firstname, lastname, gpa , classid, dept\_code, course\_no, semester and year as the output.

procedure course\_info:

This procedure takes deptcode and course\_no as input and shows the dept\_code, course\_no and title of the direct/indirect pre-requisite courses.

procedure class\_info:

This procedure takes classid as input and displays classid, course title, semester, year , sid, firstname, lastname and email as the output.

procedure enroll\_student:

This procedure takes sid and classid as input and enrolls the student in that particular class, based on the conditions that are provided.

procedure delete\_enrollment:

This procedure takes sid and classid as input and drops the student from that particular course, based on the conditions that are provided.

procedure delete\_student:

This procedure takes sid as input and deletes the the student from the student table as well as the enrollments table, based on the conditions that are provided.

**Trigger for Project:**

TRIGGER student\_trigger\_delete:

This trigger is created to delete the student from enrollments.

TRIGGER enrollments\_trigger\_delete:

This trigger is created to decrement the classsize by 1, whenever a student is dropped from a class.

TRIGGER enrollments\_trigger\_insert:

This trigger is created to increment the classsize by 1, whenever a student is enrolled in a class.

TRIGGER logs\_insert\_student:

This trigger is created to insert an entry into the log table after a student is added to the students table.

TRIGGER logs\_delete\_student:

This trigger is created to insert an entry into the log table after a student is deleted from the students table.

TRIGGER logs\_insert\_enrollments:

This trigger is created to insert an entry into the log table after a student is a enrolled in a class.

TRIGGER logs\_delete\_enrollments:

This trigger is created to insert an entry into the log table after a student is dropped from a class

**Sequence for Project:**

log\_number:

It creates sequence “log\_number” which is a 4 digit number that starts from 1000 and increments by 1