[GROUP 32]

[Phase 3]

Yongxin Wang, ywang751, Section A Huiyan Xu, hxu325, Section A Bo Guo, bguo35, Section B Kerui Cui, kcui8, Section B

CS 4400 Project Phase III Query

Group Number 32

Yongxin Wang	ywang751	ywang751@gatech.edu	Section A
Huiyan Xu	hxu325	hxu325@gatech.edu Se	ction A
Bo Guo	bguo35	bguo35@gatech.edu Se	ction B
Kerui Cui	kcui8	kcui8@gatech.edu	Section B

Note: Anything %s is going to be replaced by whatever variable the user inputs. The actual variable names are referring to the tables are not in quotes.

General Login for Two Types of Users

SELECT UserType FROM User WHERE Username = %s AND Password = %s

Query for Student Users

1. New user registration

-Check if the email and username are unique

SELECT Email FROM User WHERE Email = %s

SELECT Username FROM User WHERE Username = %s

-Insert new user information

INSERT INTO User (Username, Password, Email, UserType)

VALUES (%s, %s, %s, %s)

INSERT INTO Student (Username, Major, Year)

VALUES (%s, %s, %s)

2. Get all projects names

SELECT Project.ProjName, Project.DesignationName,

Project_Major_Require.Major, Project_Year_Require.Year,

Project_Dept_Require.Dept, Project_is_category.Category_name

FROM 'Project'

LEFT JOIN Project_Major_Require

ON Project.ProjName = Project_Major_Require.Pname

LEFT JOIN Project_Year_Require

ON Project.ProjName = Project_Year_Require.Pname

LEFT JOIN Project_Dept_Require

ON Project.ProjName = Project_Dept_Require.Pname

LEFT JOIN Project is category

ON Project.ProjName = Project_is_category.Project_name

LIMIT 0, 30000000000

3. Get all courses

SELECT Course.Name, Course.Designation_name,

 $Course_is_category_name$

FROM Course

LEFT JOIN Course_is_category

ON Course.Name = Course_is_category.Course_name

LIMIT 0,30000000000

4. Get all applications of the user that's currently logged in, include application date, project name and status from database

SELECT Project_name, Date, Status

FROM Apply

Where Student_name= %s

LIMIT 0,30000000000

5. Update profile by changing major

UPDATE cs4400_Team_32.Student SET Major = %s

WHERE Student. Username = %s

6. Update profile by changing year

UPDATE cs4400_Team_32.Student SET Year = %s WHERE Student.Username = %s

7. View project details which include advisor, description, designation, category, requirements, and estimated No. of students

SELECT Project.AdvisorName,Project.AdvisorEmail,

Project.Description,Project.DesignationName,

Project_is_category.Category_name,

Project_Major_Require.Major, Project_Year_Require.Year,

Project_Dept_Require.Dept,Project.EstNoStudent

FROM Course

LEFT JOIN Course is category

ON Course.Name = Course_is_category.Course_name

WHERE Course.Name= %s LIMIT 0, 30000000000

8. Students apply for a project as insert a new tuple (username, project_name)

INSERT INTO Apply (Project_name, Student_name, Date, Status) VALUES (%s, %s, %s, %s)

9. Check if the application rejected by major, year and department

SELECT Major FROM Project_Major_Require WHERE Pname=%s

SELECT Major FROM Student WHERE Username=%s

SELECT Year FROM Project_Year_Require WHERE Pname=%s

SELECT Year FROM Student WHERE Username=%s

SELECT Dept FROM Project_Dept_Require WHERE Pname=%s

SELECT Major.Dept_name

FROM Student

NATURAL JOIN Major WHERE Username = %s AND

Major.name = Student.Major

10. View course details

SELECT Course.Course_number,Course.Instructor,

Course.Designation_name,Course_is_category.Category_name,

Course.EstNoStudents

FROM Course

LEFT JOIN Course_is_category

ON Course.Name = Course_is_category.Course_name

WHERE Course.Name= %s

LIMIT 0, 30000000000

Query for Administration Users

1. Add a new project

INSERT INTO Project (ProjName, Description, AdvisorEmail, AdvisorName, EstNoStudent, DesignationName)

VALUES (%s, %s, %s, %s, %s, %s)

INSERT INTO Project_is_category

VALUES (%s, %s)

INSERT INTO Project_Year_Require (Pname, Year) VALUES (%s, %s)

INSERT INTO Project_Major_Require (Pname, Major) VALUES (%s, %s)

INSERT INTO Project_Dept_Require (Pname, Dept) VALUES (%s, %s)

2. Add a new course

INSERT INTO Course (Name, Course_number, Instructor, EstNoStudents, Designation_name)

VALUES (%s, %s, %s, %s, %s)

INSERT INTO Course_is_category (Course_name, Category_name)

VALUES (%s, %s)

3. Approve application

UPDATE Apply SET Status = %s

WHERE Project_name = %s AND Student_name = %s

4. Reject application

UPDATE Apply SET Status = %s

WHERE Project_name = %s AND Student_name = %s

5. Get all majors

SELECT Name FROM Major

6. Get student information by username

SELECT * FROM User WHERE Username = %s

SELECT Major, Year FROM Student WHERE Username = %s

7. Get top projects

SELECT Project_name FROM Apply

8. Find department by major name

SELECT Dept_name FROM Major WHERE Name = %s

9. Get application information

SELECT Apply.Project_name, Apply.Status, Student.Major, Student.Year FROM Apply INNER JOIN Student
ON Apply.Student_name = Student.Username

10. Get all department

SELECT Dept_name FROM Major

11. Report number of applications

SELECT COUNT(Project_name)
FROM Apply GROUP BY Project_name HAVING Project_name=%s

12. Report accept rate

SELECT COUNT(Project_name)
FROM Apply
WHERE STATUS = %s
GROUP BY Project_name HAVING Project_name = %s

13. Report top majors

14. Application Report

SELECT Project_name FROM Apply GROUP BY Project_name