[57]
[Phase 3]

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1.log in
SELECT * FROM User
WHERE username="username" AND password="password"

2.register
INSERT INTO User (
username,email,password,usertype)
VALUES("username", "zz@gatech.edu", "password", '1')
  WHERE NOT EXISTS (SELECT * FROM User WHERE username = username) AND email LIKE '%@gatech.edu';

Student Functionalities
1. Main Page search and filter

  /*select Course*/
SELECT * FROM(SELECT DISTINCT course_name FROM Course_is_category
WHERE category_name IN ("cateogry1", "category2")
GROUP BY course_name HAVING COUNT(DISTINCT category_name)=2) AS res1
INNER JOIN (SELECT * FROM Course WHERE (name='name' OR 'name'='')
AND (designation_name='name2' OR 'name2'='')) AS res2 ON res1.course_name=res2.name

  /*select project*/
  SELECT DISTINCT * FROM (SELECT DISTINCT project_name FROM Project_is_category
  WHERE category_name IN ("cateogry1", "category2")
  GROUP BY project_name HAVING COUNT(DISTINCT category_name)=2) AS res1
  INNER JOIN (SELECT * FROM Project WHERE (name LIKE '%name%' OR 'name'='')
  AND (designation_name='Community' OR 'Community'='')) AS res2
  INNER JOIN (SELECT t1.name FROM (SELECT name, GROUP_CONCAT(requirement SEPARATOR ', ') AS requirements
  FROM Project_requirement GROUP BY name) AS t1 WHERE (requirement LIKE '%Computer Science%'
  OR requirement LIKE '%College of Computing%')
  AND requirement LIKE '%Freshman%') AS res3
  WHERE res1.project_name=res2.name AND res2.name=res3.name

  2.profile show
  /*get a user's major*/
SELECT major FROM User
WHERE Username="username"
/*get a user's year*/
SELECT year FROM User
WHERE Username="username"

```sql
  /*get a major's department*/
SELECT dept_name FROM Major WHERE name="name"
```

3.change major and year
```sql
  /*update user's major*/
UPDATE User SET major="major" WHERE username="username"
/*update user's year*/
UPDATE User SET year="year" WHERE username="username"
```

4.show application
```sql
/*get student's applications*/
  SELECT project_name, date, status FROM Apply
    WHERE student_name="name"
```

Admin Functionalities
1.view application
```sql
SELECT  project_name AS Project,    major AS ApplicantMajor, year AS ApplicantYear, status,
User.username AS name
FROM Apply INNER JOIN User ON User.username=Apply.student_name
```

2.view popular report
```sql
/*selectNumOfApply*/
SELECT project_name AS Project,    count(student_name) AS Number
FROM Apply GROUP BY project_name ORDER BY number DESC LIMIT 10
```

3.View Application Report
```sql
/*get all application number*/
SELECT count(*) AS number
FROM Apply
```

```sql
/*get all acception number*/
SELECT count(*) AS number
FROM Apply WHERE status='accepted'
```

```sql
/*report*/
(((SELECT project_name AS Project, count(student_name)
AS number FROM Apply WHERE status='accepted' GROUP BY project_name)
UNION (SELECT project_name AS Project, 0 FROM Apply GROUP BY project_name
HAVING COUNT(status IN ('accepted') OR NULL)=0))AS number2)
SELECT res1.Project, res1.NumberofApplicant, res1.accepterate, res2.Major
FROM (SELECT  number1.Project, number1.number AS NumberofApplicant, (number2.number *
100 / number1.number) AS accepterate
FROM ((SELECT project_name AS Project, count(student_name) AS number FROM Apply GROUP
BY project_name) AS number1)
```

```
INNER JOIN (((SELECT project_name AS Project, count(student_name) AS number
FROM Apply WHERE status='accepted' GROUP BY project_name)
UNION (SELECT project_name AS Project, 0
FROM Apply GROUP BY project_name
HAVING COUNT(status IN ('accepted') OR NULL)=0))AS number2)
ON number1.Project=number2.Project) AS res1
INNER JOIN (SELECT p.project_name AS Project, substring_index(GROUP_CONCAT(p.major
ORDER BY p.number DESC SEPARATOR '/'), '/', 3) AS Major
FROM ((SELECT project_name, major, count(*) AS number
FROM Apply INNER JOIN User ON User.username=Apply.student_name
GROUP BY Apply.project_name, User.major) AS p) GROUP BY p.project_name) AS res2 ON
res1.Project=res2.Project
ORDER BY accepterate DESC
```

4.insert project

```
/*insert into Project_is_category*/
/*insert into project table*/
INSERT INTO Project VALUES
("name", "description", "est_num", "adivisor_name", "adivisor@email.com",
"designation_name")
INSERT INTO Project_is_category
VALUES("project_name", "category_name")
/*insert into project requriment*/
INSERT INTO Project_requirement VALUES("name", "requirement")
```

5.insert course
```
/*insert into course*/
INSERT INTO Course VALUES("name", "course_number", "instructor", "est_num",
"designation_name")
/*insert into table Course_is_category*/
INSERT INTO Course_is_category VALUES("course_name", "category_name")
```