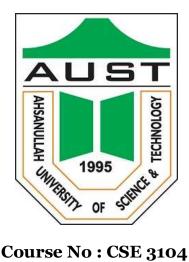**Ahsanullah University of Science & Technology**

Course No : CSE 3104

Course Title : Database Lab

Project Title

Tutorial Website

Project Members

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SUBMITTED TO

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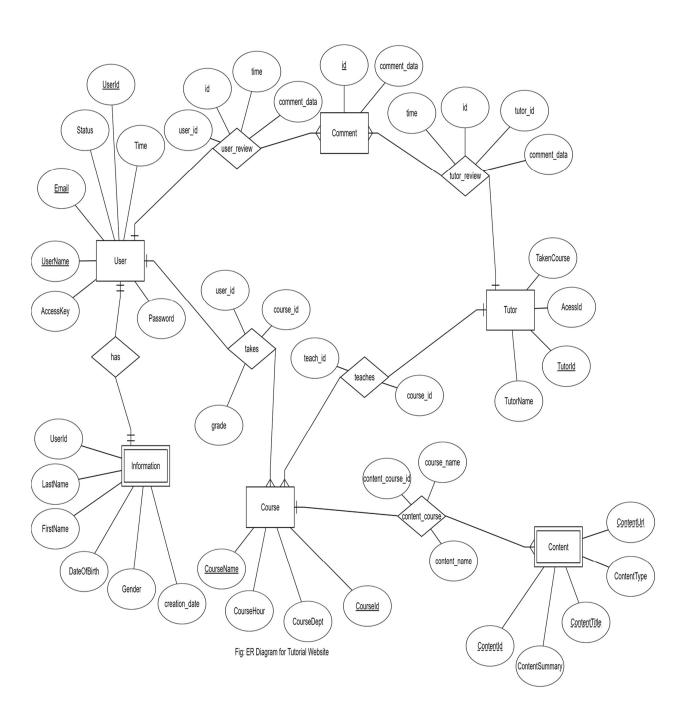
Project Abstract

Tutorial Website is a place where the students and tutors can get everything he or she needs. Student can take any courses and tutor can teach different types of courses.

Project Idea

It is a database management system project which runs upon a relational database.Here we use mysql.By this project a user can sign up and sign in our website.There will be two different type of users who are students and tutors.There are information for every user.A user(in database we say user as student) can take different types of courses from the course list.A tutor can teach different types of courses.Every course also have some content where different types of lectures are defined.There will be also a comment part where a user and tutor specifically review about course.A user also comment about any things want to need and a tutor also reply this comment.Here our user view interface are show in netbeans using java language.

ER Diagram

Fig: ER Diagram for Tutorial Website

Standard Queries

1. Find out the course information whose course name starts and ends with D.
   Ans : SELECT * FROM course WHERE course_name LIKE 'D%D';

2. Show the total number of course hour in descending order for each department
   Ans : SELECT course_name, sum(course_hour) as total FROM course GROUP

   BY course_name ORDER BY total DESC;

3. Find out the number of user secured each.
   Ans :SELECT grade, count(grade) FROM takes GROUP BY grade;

4. Find out the name of the user who have taken more than CSE course.
   Ans :SELECT user.username

   FROM user INNER JOIN takes

   ON user.user_id = takes.takes_id

   INNER JOIN course ON course.course_id = takes.course_id

   WHERE course.course_dept ='CSE'

   GROUP BY user.user_id

   HAVING count(user.user_id) >= 2;

5. Find out the course name in descending order which are taken by the user id id 2017001.
   Ans : SELECT distinct course.course_name

   FROM user INNER JOIN takes

   ON user.user_id =takes.takes_id

   INNER JOIN course ON takes.course_id = course.course_id

   WHERE user.user_id = '2017001'

   ORDER BY course.course_name DESC;

6. Find out the name of the users who take the course of Ahsan.

Ans : SELECT distinct user.username

FROM tutor INNER JOIN teaches

ON tutor.tutor_id = teaches.teaches_id

INNER JOIN takes ON takes.course_id = teaches.course_id

INNER JOIN user ON user.user_id = takes.takes_id

WHERE tutor.tutor_name='Ahsan';

7. How many courses does user id 2017001 have secured grade more than 3.0 ?

Ans : SELECT count(*)

FROM takes

WHERE takes_id = '2017001'

AND grade > 3.0;

8. Find out the name of the top 5 users who secure more than 3.2 in maximum number of courses.

Ans : SELECT user.username

FROM user INNER JOIN takes

ON user.user_id = takes.takes_id

WHERE takes.grade> 3.2

GROUP BY user.username

ORDER BY DESC

LIMIT 5;

9. Show the total number of crousehour in descending order for each department.

Ans : SELECT course_dept, sum(course_hour) as total_credit FROM course

GROUP BY course_dept ORDER BY course_dept DESC;

10 Find out the total number of courses offered in each department
   Ans : SELECT course_dept, count(*) FROM course GROUP BY course_dept;

Hardware and Software Requirements

Hardware requirement

- OS : Windows 10
- Hard Drive : 1 TB
- Ram : 8 GB

Software requirement

- Java Language
- Net Beans IDE 8.0.2
- MS SQL Server 2005
- Xampp

Limitation

The project is worked properly but it is not perfectly designed for a user or a tutor so that a user or a tutor can use it

Future work

At first, we want to remove our limitation so that every user can use it properly. Then we will update it time to time what should be needed according to user.

Conclusion

Every work should have a perfect why so that a person can develop not only himself but also for a region may be the region is big. That is why we want to develop our country by developing this idea.