

Project Title

South valley university

Electronic system for examination and evaluation system

Project Description

South valley university is looking forward to develop an electronic system for examination and evaluation system. The target system intended to engage head of scientific departments, professors of each department, undergraduate and post graduate students from different faculties, scientific degrees and levels.

the system intended to have question bank that will be used by a professor to develop an exam for every course which is under supervision of only one scientific department. A professor may teach one course or more and the course may be assigned to different number professors for different scientific degrees and levels. Students can access the system throw username and password to answer every exam of their courses. Students can evaluate each course and also can evaluate each professor of each course. System should calculate results for exams automatically.

Deliverables

- ERD of the Database
- Database Files
- The following queries: -
 - Write a query that enables the students to view their results per course
 - Write a query that enables the head of department to see evaluation of each course and professor.
 - Write a query that enables you to get top 10 high scores per course
 - Write a query to get the highest evaluation professor from the set of professors teaching the same course

1_ System intended to engage head of scientific departments,

Departments (entity) ==> Relation (Manage) with Leader

2_ professors of each department

Professors (entity) ==> Relation (Works) on Department(Entity)

3_ undergraduate and post graduate students from different faculties

Student(Entity) as Super class ==> Post(subclass) + under(Subclass)

Faculties (entity OR attr) ==> Attr for each Student

4_ scientific degrees and levels.

Multi Valued ATTR of the Student(entity)

5_ the system intended to have question bank that will be used by a professor to develop an exam for every course which is under supervision of only one scientific department

QuestionBank (Entity) => Relation(used) => by Professor (entity)

Professor (entity) => realtion(develop) => Exam(entity)

one Department(Entity) => Supervise the develop of the exam

6_ professor may teach one course or more

Professor(Entity) => realation(teach) => Course(Entity)

7_ the course may be assigned to different number professors

Course(entity) => relation(assigns) => professor(entity)

8_ Students can access the system throw username and password to answer every exam of their courses

Student(entity) => relation(take) => Course(entity)

Student(entity) have ATTR (userName , Password)

9_ Students can evaluate each course and also can evaluate each professor of each course

Student(entity) => relation(evaluate) => course(entity)

Student(entity) => relation(evaluate) => professor (entity)

10_ System should calculate results for exams automatically

Result is driven ATTR for each exam

Entities

1_ Departments (Dept_id , Dept_Name)

2_ Professors (Prof_id , Prof_Name, Username, Password ,Email)

3_ Student(super) (Stu_ID , Stu_Name, Faculty, Email, Username, Password, Phone, Address, Student_Type

- Undergraduate (Subtype) (Start_year , current_year , Major)
- Postgraduate (Subtype) (Graduation_Year , Military_Service , GPA, Graduation_project

4_ QuestionBank (Ques_ID, Ques_Type, Difficulty_Level)

5_ Exam (Exam_ID, Exam_Date, Exam_Type)

6_ Course (Course_ID , Course_Name, Level , Degree_Type (Undergraduate/Postgraduate)

Relationships

1_ Leads (professor leads Department)

2_ Work (professor works on in Department)

3_ Used (QuestionBank Used by Professor)

4_ develop (Professor develop the Exam)

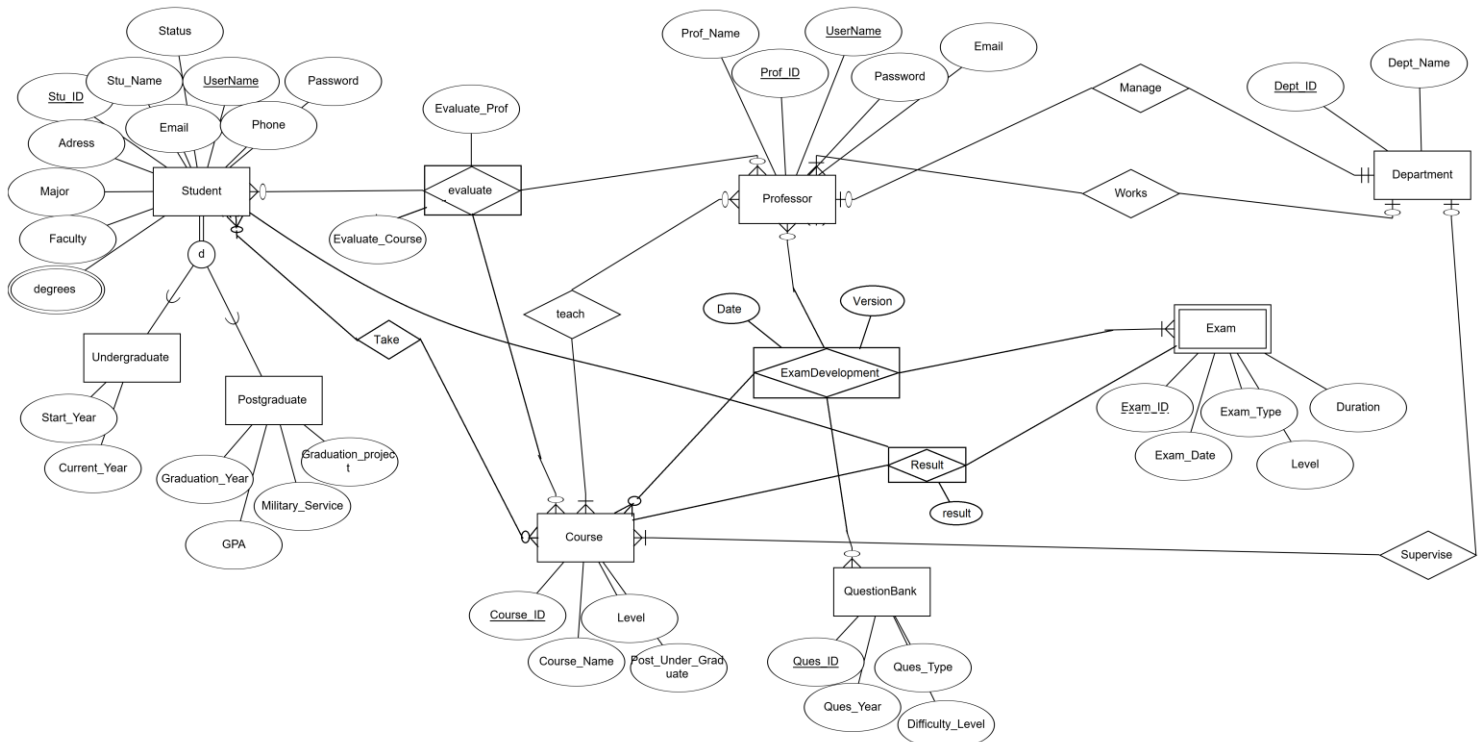
5_ Supervise (Department Supervise the development of the exam)

6_ teach (professor may teach one or more course)

7_ take (Students take courses)

8_ evaluate (student evaluate the course and the professor)

ERD



Mapping

