Final Project

• See front page for deadline information, which has been updated.

Overview

For this project you work alone to design a university database. You will track student enrollment by class and department. The database will require an authenticated login.

Design Requirements

- Entity Relationship diagram
 - Designed in Yed
 - Include the following features:
 - Entities
 - Relationships
 - 1:1 Relationship Notation (Arrows)
 - Total Participation Notation (Bold lines)
- SQLite database
 - Create a SQL database including
 - All relations and fields
 - Proper designation of constraints such as:
 - Primary keys
 - Unique fields
 - Foreign keys
 - Non-null fields
 - Include sample data as designated below.

Data Description

It should include the following information. All fields are required, unless otherwise noted.

- Departments
 - Name
- Students
 - Name
 - Phone Number
 - Admission Date

- Birthdate
- Student ID (Unique)
- Gender (Optional)
- Classes
 - Starting Year
 - Class (Freshman, Junior, Senior)
 - Room Number (Optional)
- System Users
 - Username
 - Password

Sample Data

Include the following sample data:

- All of Abaarso's current departments
- Three classes
- At least four students in each class
- At least seven students in Software Engineering
- AT least seven students in International Relations & Development
- At least two system users

Access Application Scenarios

You should support the following scenarios:

- Login
- Data View
- Updating
- Data Creation
- Data Deletion
- Search
- Queries/Reports
 - Show all students in a particular department
 - Show all students in a particular class
 - Show one student's detailed information

The following screens:

- Login
- Home

- Create/Delete
- Search/Update
- Queries/Reports

Grading

Overview of Marks

Component	Marks
ER Diagram in Yed	6%
SQLite Database	10%
Access Tables/Data	8%
Access Forms	8%
Access Queries/Reports	8%
Total Marks	40%

Rubric

- Entity Relationship Diagram
 - Proper Notation
 - Entities, Relationships
 - Including any 1:1 relationships
 - Total Participation
- SQL Database Design
 - Correct relations and fields
 - Correct integrity constraints (primary keys, foreign keys, unique, etc.)
 - Test Data
- Access Database Application
 - Schemas/Instance (Is the table design accurate? Do you have sample data?)
 - Forms (Do you have all forms working?)
 - Queries/Reports