CS260 Mini Project

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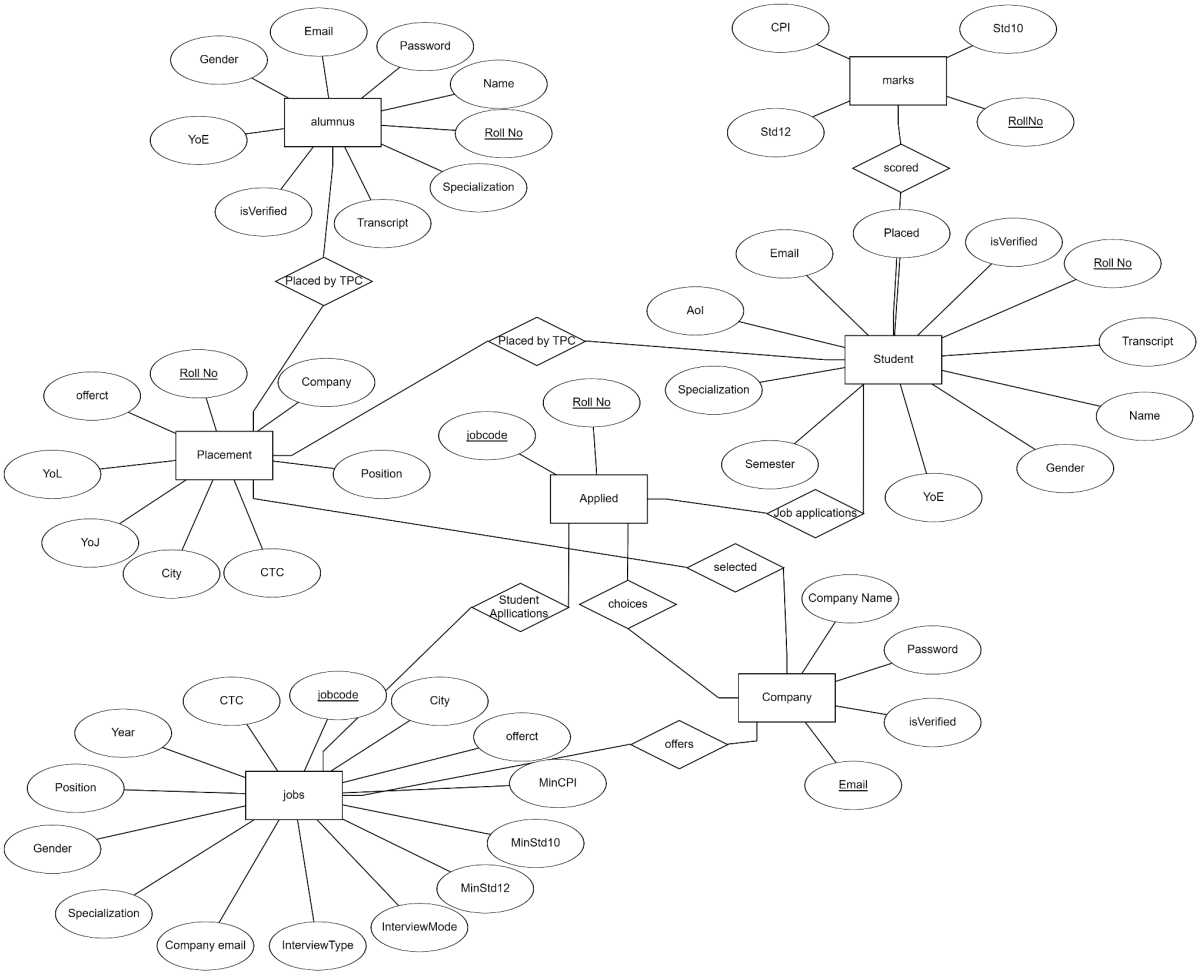
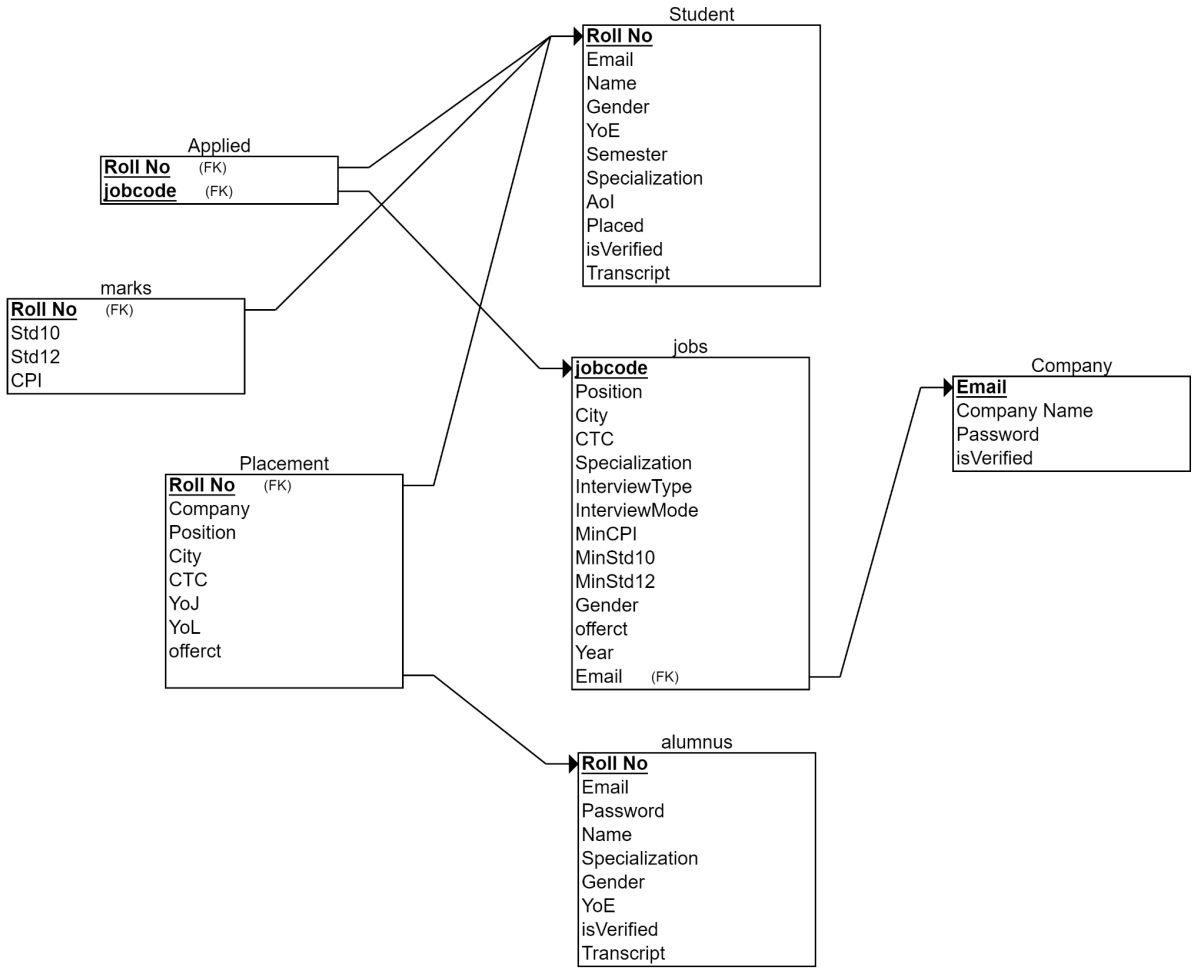
ER Diagram



Relational Diagram



Database Structure

Here, we show the database structure that we used in this project. The dump file is here: SQL_Dump

Student

The functionalities that we have implemented for the Students are:

1) **Register**
    a) Takes Strong Password only
    b) Take IIT Patna Email only
    c) Takes the Name, Email Address, Roll Number, Gender, CPI, 10th Class Marks, 12th Class Marks, Specialization (Branch), Area of Interest.
    d) We also ask if he placed or not and accordingly take in more information relating to Company, Position, CTC, Year of Joining.

2) **Login (with Verification)**
    a) The user can only login after the admin has verified the account. Otherwise, login isn't possible.

3) **Update**
    a) Update Account is implemented.

4) **Delete**
    a) Deleting Account is implemented.

5) **View and Apply for Eligible Jobs**
    a) The student can view and apply for jobs they are eligible for. They cannot view any of the other jobs they are not eligible for.

6) **Transcript Upload**
    a) Transcript uploading is implemented.

7) **Logging Out**
    a) Logging out is implemented.

Alumnus

The functionalities that we have implemented for the Alumnus are:

1) **Register**
    a) Takes Strong Password only
    b) Take IIT Patna Email only
    c) Takes the Name, Email Address, Roll Number, Gender, CPI, 10th Class Marks, 12th Class Marks, Specialization (Branch)
    d) We also take in information relating to Company, Position, CTC, Year of Joining.

2) **Login (with Verification)**
    a) The user can only login after the admin has verified the account. Otherwise, login isn't possible.
3) **Update**
    a) Update Account is implemented.

4) **Delete**
    a) Deleting Account is implemented.

5) **Logging Out**
    a) Logging out is implemented.

Company

The functionalities that we have implemented for the Company are:

1) **Register**
    a) Takes Strong Password only

b) Takes the Name, Email Address

2) **Login (with Verification)**
    a) The user can only login after the admin has verified the account. Otherwise, login isn't possible.
3) **Update**
    a) Update Account is implemented.

4) **Delete**
    a) Deleting Account is implemented.

5) **Logging Out**
    a) Logging out is implemented.

6) **Add, Update and Delete Job**
    a) Company can add a job, specifying the Position, City, CTC, Branches Applicable, Gender Applicable, Type of Interview, Mode of Interview
    b) Delete Job is implemented
    c) Update Job is implemented
7) **Accept Job Applications**
    a) Company can view the students that have applied for the specific job and can accept or reject their application

8) **View All Jobs**
    a) The Company can view all the jobs it has posted till date and all the applicants

Admin

1) **Can Access the "Terminal"**
    a) Using the terminal, the admin can implement any SQL query that they wish for and accordingly adjust the database
2) **Verify the Student, Alumnus, Company Registration**

a) Once a registration is made, the Admin gets all the information of the user trying to register and can then accept or reject their registration.

Statistics

The functionalities that we have implemented for the Statistics are:

1) **Comparing Trends over the years:**
   Graph of Average and Max CTC in LPA over the last 4 years.
   Graph of total number of offers, students placed and companies over the last 4 years.

2) **Year-Wise Statistics:**
   A particular year can be chosen from the drop-down menu and all the statistics for that particular year is shown. Like Average CTC, Max CTC in LPA.
   A graph of total numbers of offers, students placed and companies for that year.

3) **Top Recruiters:**
   The top 3 companies who gave the highest packages. And the top 3 companies who gave the most offers.

Note:

Here, I am also attaching a **GitHub Repository** where all my codes are uploaded: CS260_MiniProject

I am also attaching a **demonstration video link** capturing the working of all features of my assignment: CS260_MiniProject_Demo