

DATA MANAGEMENT AND DATABASE DESIGN

GROUP 1

TOPIC: Campus Recruitment Management System

Team Members:

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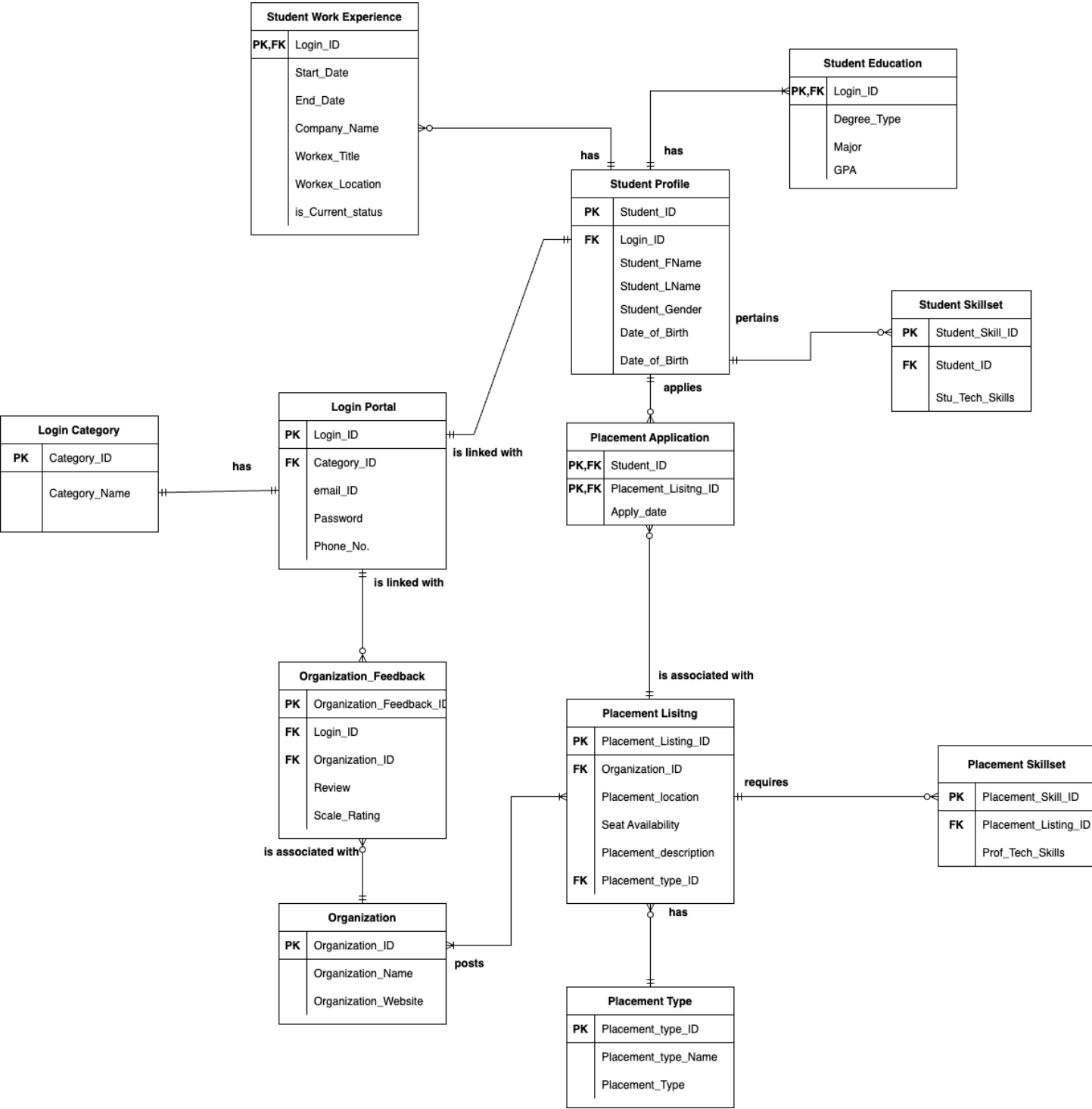
Business Problem Statement:

Around 20,000 students attend a university that has both graduate and undergraduate programs. Managing on and off-campus employment is a time-consuming process for the institution. Due to the lack of a centralized infrastructure for the students skills and employers who are interested in them, they have a difficult time connecting with one another. To keep track of all parties, including employers posting co-op/full time opportunities, professors looking for TAs/RAs, and the university offering on-campus clerical and service employment, a comprehensive centralized database is required.

Proposed Solution:

Even though there are various platforms for numerous types of student employment, there is no single, centralized system where all job listings are posted. We propose a Campus Recruitment Management System, which is a database system for managing a large set of data for both on-campus and off-campus recruitment. This database system improves the university's current placement process by providing students with information on various employment skills required by the company. While the job search process is made more convenient and secure, the student can focus entirely on learning the necessary skills and fulfilling all prerequisites.

Proposed ER Diagram:



Key Database Design Decisions:

1) Entity: Login Portal

Entity Description: Login Portal used here contains information pertaining to users (Students and Hiring Manager)

Entities Relation: Entity is related to Login Category, Organization Feedback and Student Profile so that information can be collected for use.

2) Entity: Login Category

Entity Description: This entity is used to store the TYPE of users.

Entity Relation: Entity is related to Login Portal which provides information about the logged in user.

3) Entity: Student Profile

Entity Description: This entity provides demographic information related to students.

Entity Relation: Entity is related to Placement Application, Student Education, Student Experience, Student Skill, and Login Portal to collect information via Login ID as foreign key.

4) Entity: Placement Application

Entity Description: This entity provides information about job posting for which the student has applied.

Entity Relation: Entity is related to Student Profile and Placement Listings to gather details about the company student has applied to.

5) Entity: Placement Listing

Entity Description: This entity contains information about the organization's listings.

Entity Relation: This entity is related to Placement Skill, Placement Type, Placement Application, Organization to fetch data about type of placement, skills required and placement from the recruiter.

6) Entity: Placement Type

Entity Description: This entity contains information about the type of placement i.e. on/off campus and job title.

Entity Relation: This entity is associated with Placement Listing, which provides information about the type of placement for each job listing.

7) Entity: Organization

Entity Description: This entity holds information about hiring committee.

Entity Relation: This entity is related to Organization Feedback and Placement Listing.

This entity provides placement listings as well as organization information to obtain student feedback.

8) Entity: Organization Feedback

Entity Description: This entity holds the feedback of the organization from the students.

Entity Relation: This entity is connected to Organization and Student Profile via Login Portal.

9) Entity: Placement Skillset

Entity Description: This entity defines the skill requirements for the placement listing. Entity

Relation: To provide skillset, this entity is linked to Placement Listing.

10) Entity: Student Skillset

Entity Description: This entity defines the student's skills.

Entity Relation: To provide skillset, this entity is linked to Student Profile.

11) Entity: Student Work Experience

Entity Description: This entity provides information about student's employment details.

Entity Relation: It is linked to Student Profile and shows employment information for a specific student.

12) Entity: Student Education

Entity Description: This entity provides information about student's education.

Entity Relation: It is linked to the Student Profile and provides educational data for a specific student.