



Placement Management System

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Domain Description

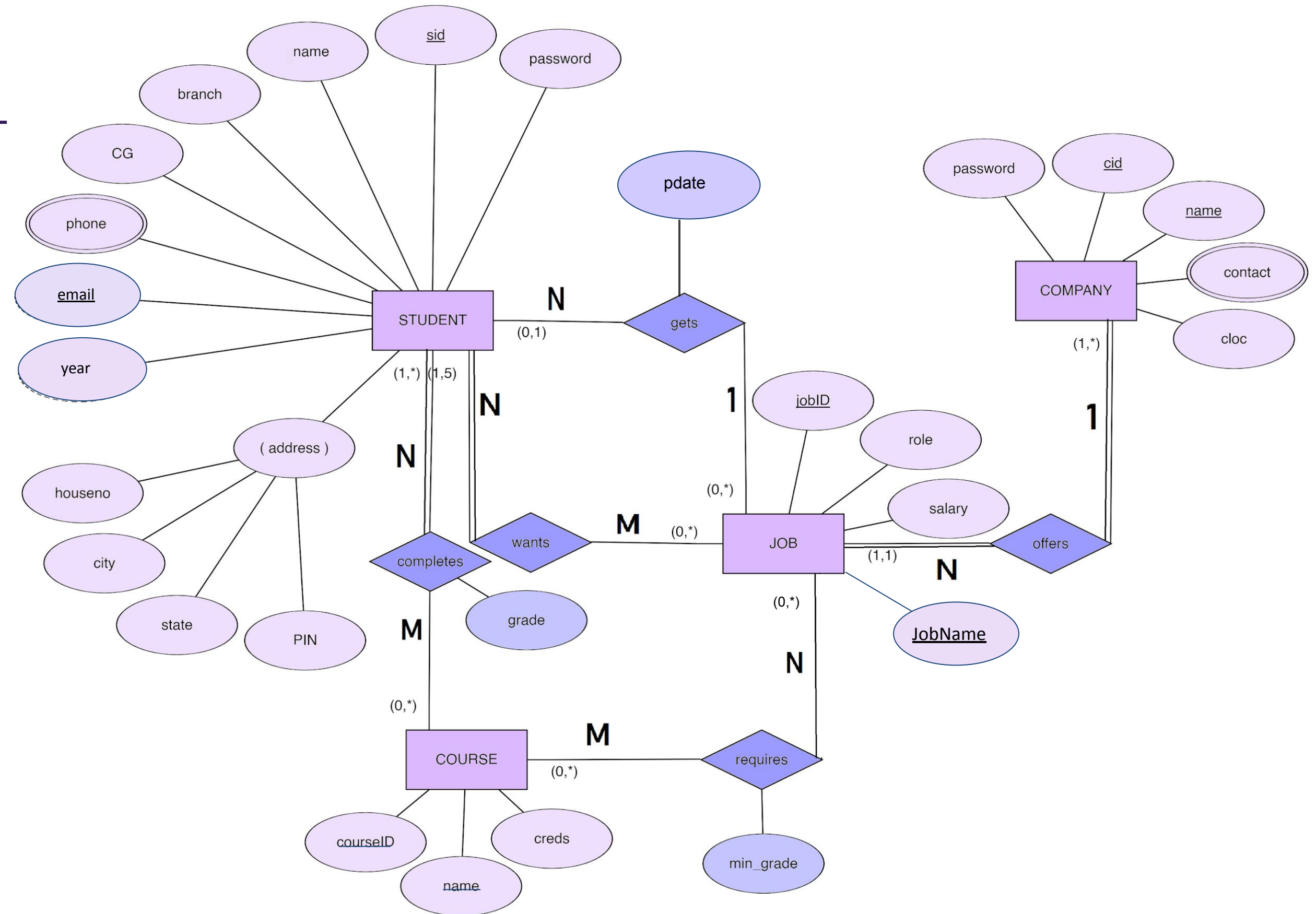
We build an application for managing information regarding placement data for BITS Pilani. *Jobs* are provided by companies. Every *Company* has a unique company ID, a unique company name, a password for logging in, multiple contact numbers and a single location. Each *Company* can provide multiple *jobs*. Each *Job* has a unique jobId, a unique job name, a role, a salary and can have multiple prerequisite *Courses* and a minimum grade is to be achieved in that *course*. Every *Course* has a unique course ID, a unique course name and an integer number of credits.

Each *Student* is associated with an ID (unique), a name, year, branch, email, address consisting of house number, city, state and pin code, multiple phone numbers, password for log in into our system and completes *Courses*. A *Student* takes any number of *Courses* and receives a grade in the *Course* completed. A student has his job preferences. One *Job* can be preferred by any number of students. There can also be a *Job* which no *Student* prefers. A *Student* can either be placed or not placed. A placed *Student* gets exactly one job. Many *Students* can receive the same *Job*. There can also be a *Job* which no *Student* receives. A student may even get a job which was not in his preferences. Along with the *job* in which a *student* is placed we also store the date on which he was placed.

Constraints

- One job is provided by exactly one company.
- One student can prefer a minimum of 1 job and a maximum of 5 jobs
- Each student must complete at least one course
- Each student has exactly one branch
- Every company registered must offer at least one job
- Student ID consists of 5 characters and is unique.
- Company ID consists of 4 digits and is unique for every company.
- Job ID also consists of 4 digits and is unique for every job.
- Course ID also consists of 4 digits and is unique for every course.

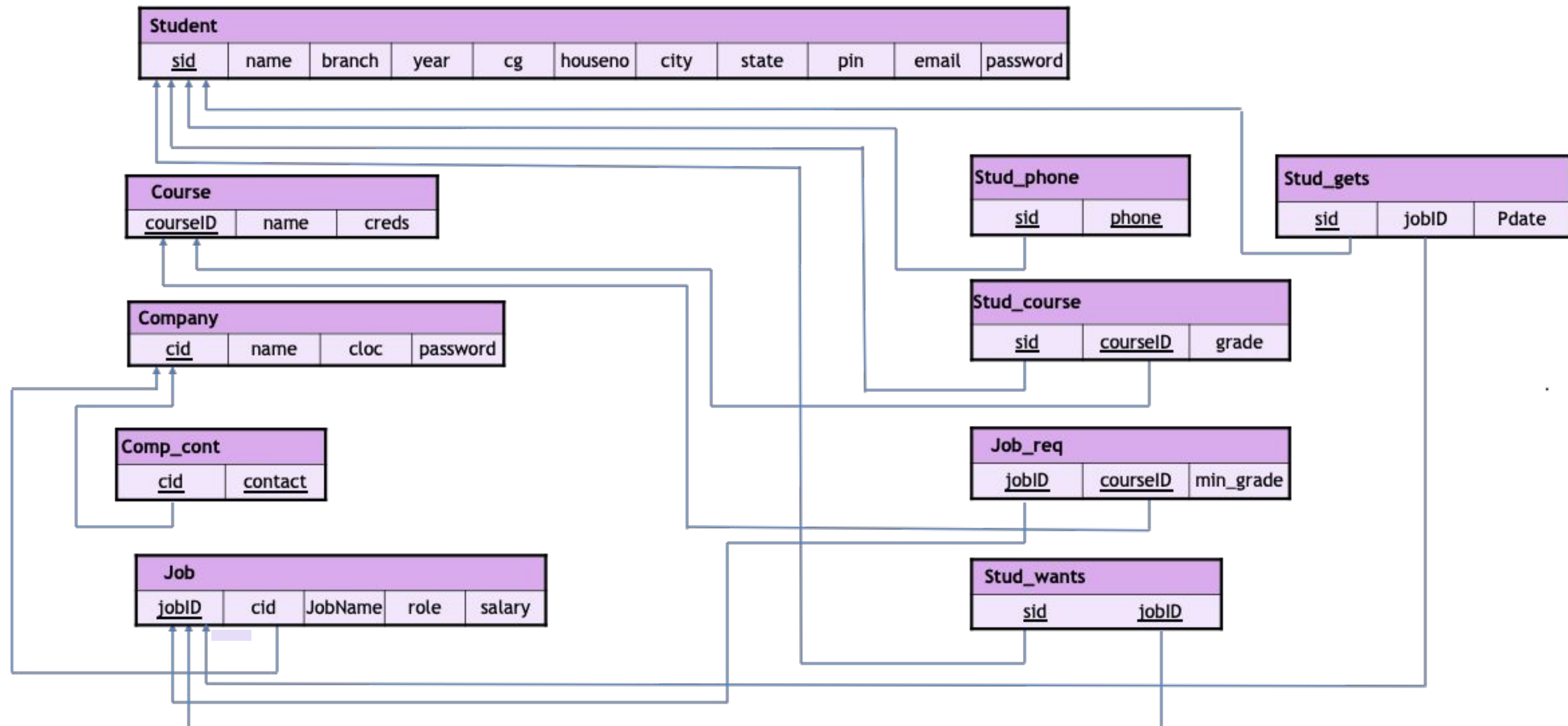
ER Modeling



Relational Schema

Assumptions

- No table can have null values



Thank You