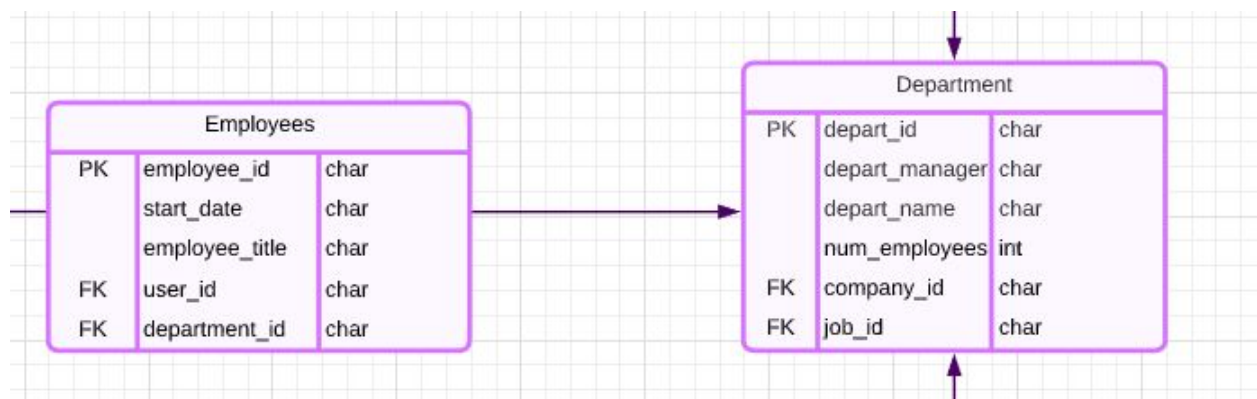


CPS-510 Assignment 7

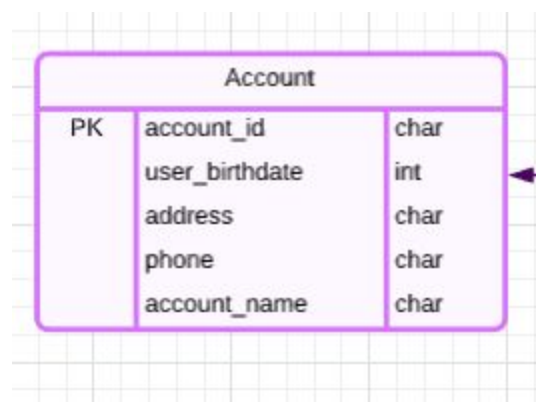
3NF between Department and Employee

- Employees are part of a specific department. This employee has a manager, but the manager attribute is reliant on the department id which creates a transitive dependency. The department that the employee is part of also has a name, however the department name is reliant on the department id creating a transitive dependency. Therefore, following the 3rd Normal Form rules, we move department name and department manager into the department table, and instead reference these columns using department id.



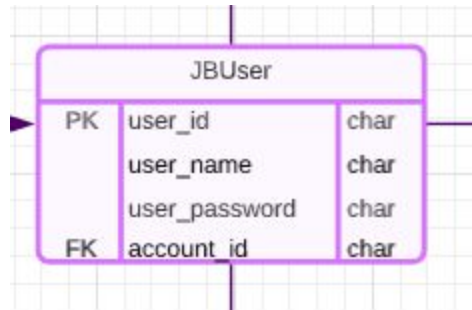
Account Table

- The attributes in the account table are all dependent on the account id and are not dependent on any other attributes from other tables. By observation, the user birthdate, address, phone, account name are all unique attributes that are dependent on the account id.



JBUser Table

- The attributes in the JBUser table are all dependent on the user id and are not dependent on any other attributes from other tables. By observation, the username and password are all unique attributes that are dependent on the user id.



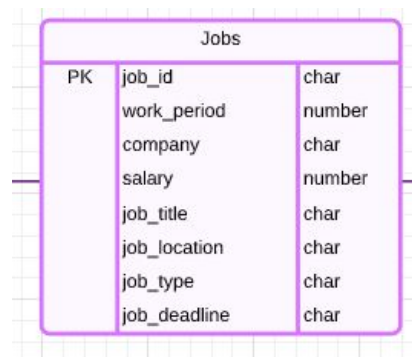
Qualifications

- The attributes in the qualifications table are all dependent on the qualification id and are not dependent on any other attributes from other tables. By observation, the degree, resume, years of experience, cover letter, license are all unique attributes that are dependent on the qualification id.



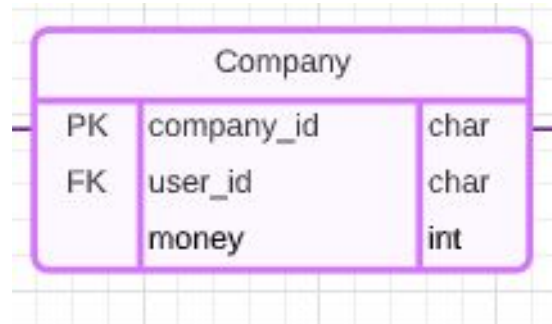
Jobs

- The attributes in the Jobs table are all dependent on the Job id and are not dependent on any other attributes from other tables. By observation, the job work period, company, salary, job title, job location, job type, job deadline are all unique attributes that are dependent on the job id.



Company

- The attributes in the Company table are all dependent on the company id and are not dependent on any other attributes from other tables. By observation, the company money is a unique attribute that is dependent on the company id.



Applicant

- The attributes in the Applicant table are all dependent on the applicant id and are not dependent on any other attributes from other tables. By observation, the applicant subscription unique attributes that are dependent on the applicant id. The applicant subscription was not included in accounts because accounts can be used by companies and employees that do not require a subscription.

