**E/R Diagram to Relational Database Schema**

**Link of ER diagram:**

<https://app.lucidchart.com/invitations/accept/ff991a4e-b784-4de8-a271-f1d46269686f>

You can make comments on the lucid site.

**Entity:**

**User** (userName, firstName, lastName, email, contactNumber, password)

**Employer** (userName, employerName, accStatus, balance)

**Applicant** (userName, accStatus)

**Admin** (userName)

**EmployerCategory** (category, monthlyCharge)

**ApplicantCategory** (category, monthlyCharge)

**Job** (jobID, employerUserName, title, datePosted, description, category, jobStatus, empNeeded)

*Foreign Key* (employerUserName) From entity Employer (userName)

**DefaultMOP** (cardNumber, auto\_manual)

**CreditCardInfo** (CCNumber, expireDate, userUserName, CCBNumber)

*Foreign Key* (userUserName) From entity User (userName)

**PADInfo** (accountNumber, userUserName, instituteNumber, branchNumber)

*Foreign Key* (userUserName) From entity User (userName)

**ApplicantBalane** (applicantUserName, balance)

*Foreign Key* (employeeUserName) From entity Employee (userName)

**Payment** (cardNumber, paymentDate, amount)

*Foreign Key* (cardNumber) From entity CreditCardInfo/PADInfo (CCNumber/accountNumber)

**Relationship:**

**SelectEmployerCategory** (employerUserName, startDate, charge, employerCategory)

*Foreign Key* (employerUserName) From entity Employer (userName)

*Foreign Key* (employerCategory) From entity EmployerCategory (category)

Many-to-one: An employer can have only one category on a specific date, a category can be taken by many employer.

**SelectApplicantCategory** (applicantUserName, startDate, charge, applicantCategory)

*Foreign Key* (applicantUserName) From entity Applicant (userName)

*Foreign Key* (applicantCategory) From entity ApplicantCategory (category)

Many-to-one: An applicant can have only one category on a specific date, a category can be taken by many applicant.

**Apply** (applicantUserName, jobID, applicationStatus, applicationDate)

*Foreign Key* (applicantUserName) From entity Applicant (userName)

*Foreign Key* (jobID) From entity Job (jobID)

Many-to-Many: An applicant can apply for many jobs, A job can have many application from different applicant.