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

**Entity:**

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

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

**Applicant** (userName, category, accStatus)

**Admin** (userName)

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

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

**CreditCardInfo** (CCNumber, expireDate, CCBNumber, defaultCard, auto\_manual)

**PADInfo** (accountNumber, instituteNumber, branchNumber, defaultAccount, auto\_manual)

**ApplicantBalane** (applicantUserName, balance)

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

**Relationship:**

**Application** (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.

**EmployerCC** (employerUserName**,** CCNumber**)**

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

*Foreign Key* (CCNumber) From entity CreditCardInfo (CCNumber)

Many-to-One: An employer can have many Credit Card, A credit card will be associated with only one employer.

**EmployerPAD (**employerUserName**,** accountNumer**)**

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

*Foreign Key* (accountNumer) From entity PADInfo (accountNumber)

Many-to-One: An employer can have many bank account, A bank account will be associated with only one employer.

**ApplicantCC (**applicantUserName**,** CCNumber**)**

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

*Foreign Key* (CCNumber) From entity CreditCardInfo (CCNumber)

Many-to-One: An applicant can have many Credit Card, A credit card will be associated with only one applicant.

**ApplicantPAD (**applicantUserName**,** accountNumer**)**

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

*Foreign Key* (accountNumer) From entity PADInfo (accountNumber)

Many-to-One: An applicant can have many bank account, A bank account will be associated with only one applicant.