

E/R Diagram to Relational Database Schema

Entity:

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

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

Foreign Key (userName) From entity User (userName)

Applicant (userName, category, accStatus, balance)

Foreign Key (userName) From entity User (userName)

Admin (userName)

Foreign Key (userName) From entity User (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)

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 Cards, A credit card can be associated with only one employer.

EmployerPAD (employerUserName, accountNumber)

Foreign Key (employerUserName) From entity Employer (userName)

Foreign Key (accountNumber) 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, accountNumber)

Foreign Key (applicantUserName) From entity Applicant (userName)

Foreign Key (accountNumber) From entity PADInfo (accountNumber)

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