

Assumptions for database design:

1. The employer could be a person or a company, then the name of employer could not be a primary key in the Employer schema.

ER Diagram to Relational Database Schema

Entity:

- **User** (**UserID**, Email, Address, Phone_number, Password, Username)
- **Employer** (**Employer ID**, Description, Name, Balance, Membership_StartTime, EmployerStatus, FrozenTime, *UserId*, *GenreEm*)
Foreign key: UserID referring to User, GenreEm referring to EmployerMembership
- **Candidate** (**Candidate ID**, FirstName, LastName, Balance, Membership_StartTime, CandidateStatus, FrozenTime, *UserId*, *GenreCan*)
Foreign key: UserID referring to User, GenreCan referring to CandidateMembership
- **Admin** (**Admin ID**, FirstName, LastName, *UserId*)
Foreign key: UserID referring to User
- **Job** (**Job ID**, Vacancies, JobStatus, Title, Description, Post_Date, Location, *Employer_ID*, *GenreJob*)
Foreign key: Employer_ID referring to Employer, GenreJob referring to JobCategory
- **Payment** (**Payment_ID**, Amount, PaymentCreateDate, *UserId*)
Foreign key: UserID referring to User
- **PayMenthod** (**PayMethod ID**, Card_Number, CVV_Number, ExpireDate, DefaultCard, AutoManual, *UserId*, *Payment_ID*)
Foreign key: Payment_ID referring to Payment, UserID referring to User
- **EmployerMembership** (**Genre**, MonthlyFee, MaxJobPost)
- **CandidateMembership** (**Genre**, MonthlyFee, MaxJobApply)

- **PadInformation** (AccountNumber, BranchNumber, InstituteNumber, **PayMethod ID**)

Foreign key: PayMethod_ID referring to Payment

- **JobCategory** (**Genre**, Name)

Relationship:

- **Application** (ApplicationStatus, ApplicationDate, Job_ID, Candidate_ID)

*Primary key: (**Job ID, Candidate ID**)*

Foreign key: Job_ID referring to Job, Candidate_ID referring to Candidate