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 (<u>UserID</u>, Email, Address, Phone number, Password, Username)
- Employer (<u>Employer ID</u>, Description, Name, Balance, Membership_StartTime *UserId*, *GenreEm*)

 Foreign key: UserID referring to User, GenreEm referring to EmployerMembership
- Candidate (<u>Candidate ID</u>, FirstName, LastName, Balance, Membership_StartTime, *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 (<u>Job ID</u>, 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