ER Diagram

Applicant (entity) attributes:
- Phone No
- Name (Fname, Minit, Lname)
- AID
- Age (derived)
- DOB
- Address
- Sex

Job-Type (entity) attributes:
- Salary
- Description
- JType
- JName
- JID

Applied (relationship, M : 2) with attribute: Working Hours
- Job-Type ——2—— Applied ——M—— Applicant

Dependent (relationship, identifying) between Applicant (1) and Dependent (N)

Dependent (entity) attributes:
- DID
- Age (derived)
- Relationship
- Name (Fname, Lname)
- Sex
- BDate

Studied In (relationship) between Applicant (N:1) and College (1)

College (entity) attributes:
- CID
- Course Name
- Location
- C name

Offers (relationship) between Job-Type (N) and Company (1)

Company (entity) attributes:
- PNo.
- C Gmail.ID
- CDescription
- Address
- CPname
- CPID

Mapping of ER Diagram

Step 1. Mapping Regular Entity

Applicant (<u>AID</u> , FName , Minit , LName , DOB , Sex , Address)

College (<u>CID</u> , CName , Location , Course Name)

JobType (<u>JID</u> , JName , JType , Salary , Description)

Company (<u>CPID</u> , CPName , Address , CDescription)

Step 2: Mapping Weak Entity

Dependent (FName , LName , Sex , Bdate , Relationship , AID , DID)

Step 3: Mapping Relationship Types

(1) 1-N Relationship

(1) 1-N Relationship

Applicant (<u>AID</u> , FName , Minit , LName , DOB , Sex , Address , CID)

2) MN Relationship

Job-Type (JID , JName , JType , Salary , Discription , CPID)

Applied (AID , JID , working-Hours)

step 4: Mapping Multivalued Attributes

Phone-NO (AID , Phone No)

P_NO (CPID , P_NO)

C_Email_ID (CPID , C_Email_ID)