FEUPbook DB – Entity Relationship Model

Entities

MediaType (id, name, location) {ProgLogo, ProfilePic, PostPic, PostVideo, PostAudio}
CircleType (id, name) { Department, Program, Course, Class, *Admin*, *AdHoc*, *Global* }
MemberType (id, name) {Student, Professor, Employee, Admin}

Post (id, timest, message)
Media (id, name)
Member (id, name, email, password)
Session (id, initialts, finalts)

Circle (id)
Department (id, name, initials)
Program (id, name, initials)
Course (id, name, initials, year)
Class (id, reference)

Notification (id, message, readstatus)

Chat (id)
ChatEntry (id, timest, message)

Relationships

postedBy (Post, Member) N:1 t/p
mediaOfType (Media, MediaType) N:1 t/p
belongsTo (Media, Post) N:1 p/p
memberOfType (Member, MemberType) N:1 p/p
profilePic (Media, Member) 1:N p/p
sessionBy (Session, Member) N:1 t/p

departmentHas (Department, Circle) 1:1 t/p
programOf (Program, Department) N:1 t/p
progLogo (Media, Program) 1:1 p/p
programHas (Program, Circle) 1:1 t/p
courseOf (Course, Program) N:1 t/p
courseHas (Course, Circle) 1:1 t/p
classOf (Class, Course) N:1 t/p
classHas (Class, Circle) 1:1 t/p
circleOfType (Circle, CircleType) N:1 t/p

postedIn (Post, Circle) N:N t/p
partOf (Member, Circle) N:N p/p

notifying (Notification, Member) N:N t/p

among (Chat, Circle) 1:1 t/p
entryIn (ChatEntry, Chat) N:1 t/p
entryBy (ChatEntry, Member) N:1 t/p