

Relationship Schema

Posts(PostId[PK], TimeLate, Date, SongId[FK to Song.SongId])
UserRef(UserToken[PK, FK to Profile.UserId])
Profile(UserId[PK], Name, Email)
Login(Username[PK, FK to Profile.UserId], Password)
Song(SongId[PK], Name, Artist, Plays)

Assumptions

- A Post cannot contain 0 songs
- A Login cannot be connected to no Profile
- A Profile cannot be connected to no Login
- A Profile can have 0 posts
- A Post must be posted by a Profile (cannot have 0 Profile)
- A Profile cannot have 0 UserRef
- A UserRef must be connected to exactly one Profile

Relationship Descriptions

- A Login contains a username (Primary Key) and a password with a cardinality of two
 - A Profile contains UserId (Primary Key), Name, and Email, resulting in a cardinality of three
 - A Post has a cardinality of 3 with attributes PostId (Primary Key), TimeLate, and Date
 - A Song is identified by SongId and also has attributes Name, Artist, and Plays, equalling to a cardinality of four
 - A UserRef is identified by a UserToken and has cardinality of one
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- A Post can only contain one Song, but a Song can be on multiple different posts
 - A Profile can be friends with zero or more other Profiles (friends), and other Profiles (Friends) can be friends with zero or more Profiles
 - A Login can only be connected to one Profile, a Profile can only have one Login
 - A Profile can post multiple posts, but a Post can only be posted by one Profile
 - A Profile can only have one UserRef, and a UserRef can only refer to one Profile

