

## 1. Translation to the Relational Model

[users] : {[username: varchar, email: varchar, join\_date: date]}

[viewers] : {[vid: (users), watchtime: time]}

[creators] : {[cid: (users), total\_views: int]}

[channels] : {[id: int, name: varchar, owner: (creators)]}

[comments] : {[id: int, text: varchar, poster: (viewers), video: (videos), timestamp: datetime]}

[videos] : {[id: int, title: varchar, description: varchar, duration: time, views: int, creator: (creators), editing\_software: varchar]}

[subscribe] : {[viewer: (viewers), channel: (channels)]}