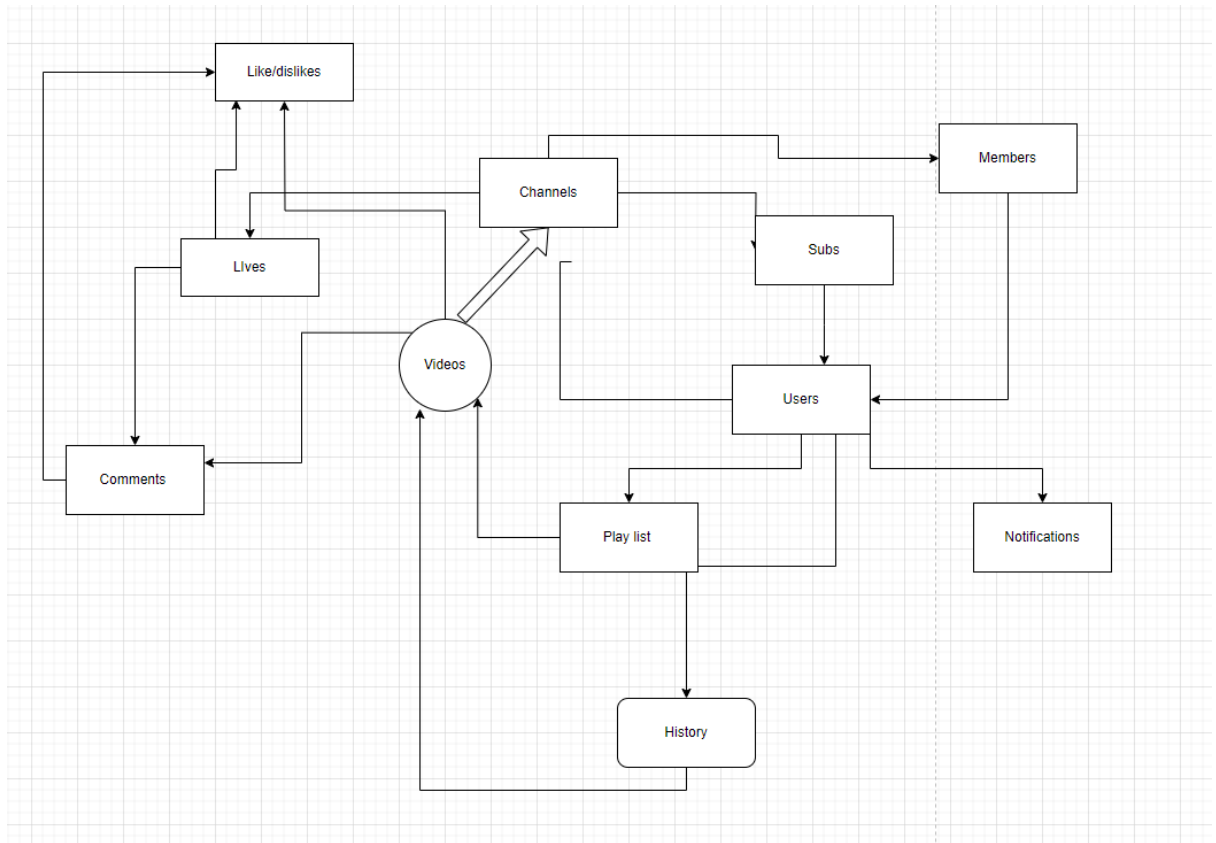


First Workshop Foundation Database

1. As a YouTube user, I want to be able to create custom playlists to easily organize and access my favorite videos, so I can enjoy them at any time without having to search for them individually."
2. **STEP 0 Define components**



3.

Step 1 Define entities

1. Channels
2. User
3. Videos
4. Lives
5. Comments
6. Subs
7. Likes/dislike
8. Members
9. replys
10. playlist
11. History

Step 2 Atributes of entity

1. Channels: Id, name, email creator (user), subs ,

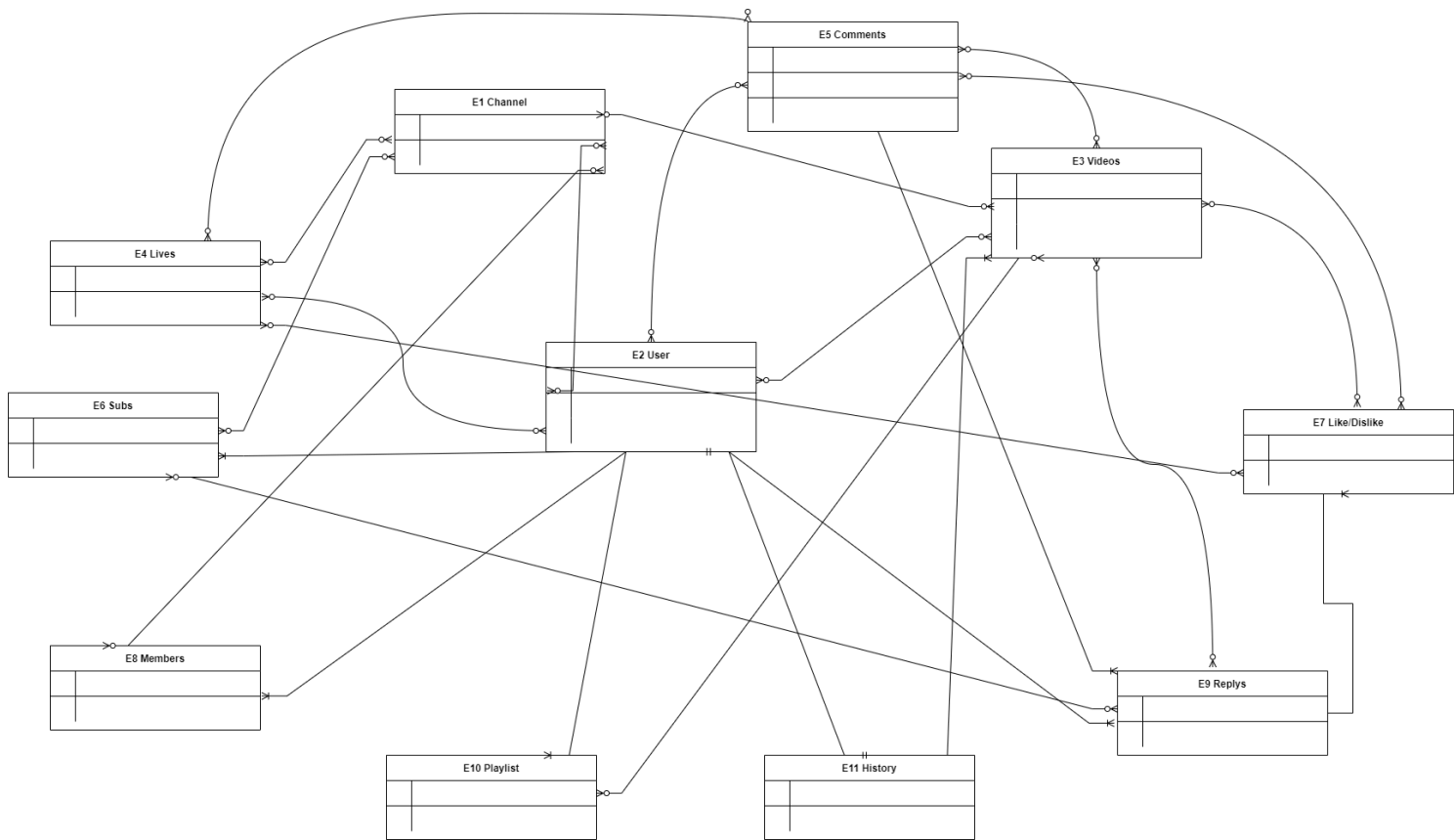
2. User: Id, name , email, phone, subs
3. Videos: Name, channel,date post, like/dislike, comments, description , category (M,T,E , ETC)
4. lives: Name, channel,date post, like/dislike, comments, description , category (M,T,E , ETC)
5. Comments: User, text, video, like/dislike, replies
6. Subs: User, channel subscribed
7. Likes/dislikes: User, Video; comment, reply
8. Members: User, channel Joined
9. Reply: User, like dislike, video, comment
10. Playlist: User creator,name, date, Videos, type of privacy
11. History: User, watched videos, live watched, date

[illegible]

☐☐ **ONE TO ONE**

E1《—》E2

Step 5 First entity- relationship draw



Step 6 First Split Many to many Relationship

E1 «—» **E2** channel and user

Channel User	
Channel_id	FK
User_id	FK

E1 «—» **E6** channel and subs

ChannelSubs	
Channel_id	FK
User_id	FK

E1«—»E8 channel and member

Channelmembers	
Channel_id	FK
User_id	FK

E2 «—»E3 User and Videos

User_Videos	
Video_id	FK
User_id	FK

E2«—» E4 User and lives

User_Live	
Live_id	FK
User_id	FK

E2 «—»E5 user and comments

user_comments	
Comment_id	FK
User id	FK

E3«—» E5 Video and comments

Video_comments	
Video_id	FK
Comment_id	FK

E3 «—»E7 Video and likes/dislikes

Videolikes	
Video_id	FK
User id	FK

E3«—» E9 Video and replies

Video_replies	
Video_id	FK
User id	FK

E3«—» E10 Video and playlist

Videoplaylist	
Video_id	FK
Playlist_id	FK

E4 «—»E5 Lives and comments

Live comments	
Live_id	FK
Comment_id	FK

E4«—» E7 Lives and likes/dislikes

Live likes	
Live_id	FK
User id	FK

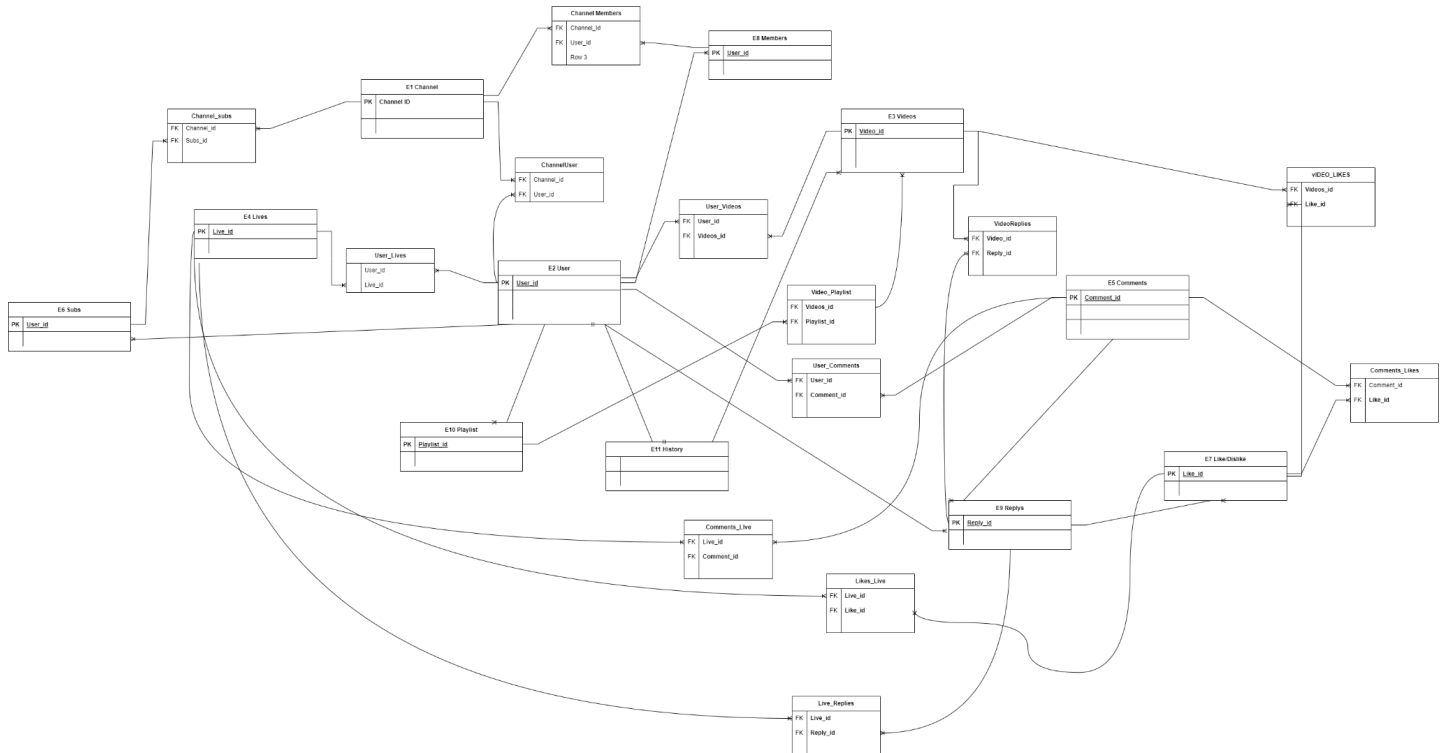
E4«—» E9 Lives and replies

Live_replies	
Live_id	FK
User id	FK

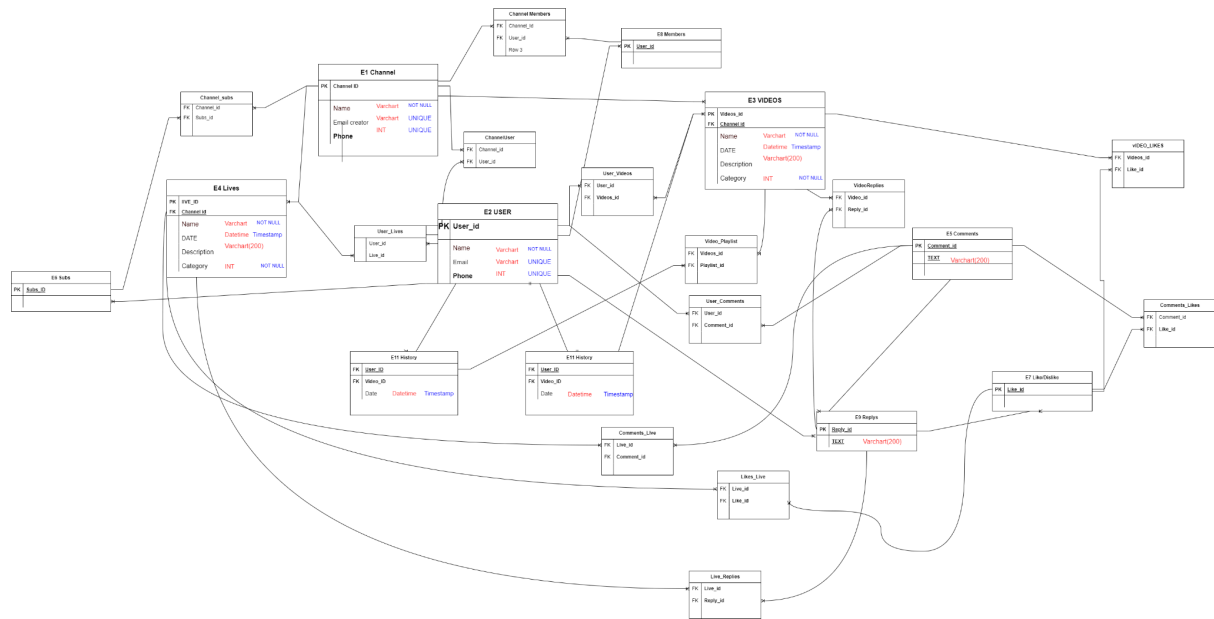
E5«—» E7 Comments and Likes/Dislikes

Comment_likes	
Comment_id	FK
User id	FK

Step 7 Second Diagram



Step. 8 Get data Structure E-R-M AND Step 9 Define Constrains And properties of data



3. Write any technical decision/consideration you made in the design progress

One technique employed during the database design process involved conducting a thorough analysis of the application. This analysis aimed to identify the various entities within the application. Subsequently, after discerning the majority of these entities, the focus shifted to establishing logical connections between them. This was accomplished through the utilization of a related data model, wherein the interrelationships between entities were delineated systematically and cohesively. By adhering to this structured approach, the database design was able to effectively encapsulate the inherent complexities of the application while ensuring a robust and coherent data architecture.

4. write any concern or challenge you have completed this test.

I think one challenge that I have to confront is the logical connection between entities and no reiterations data that can hinder the design of the database. I think this is the most challenging concern because if the design is wrong the database is going to be the same way.