

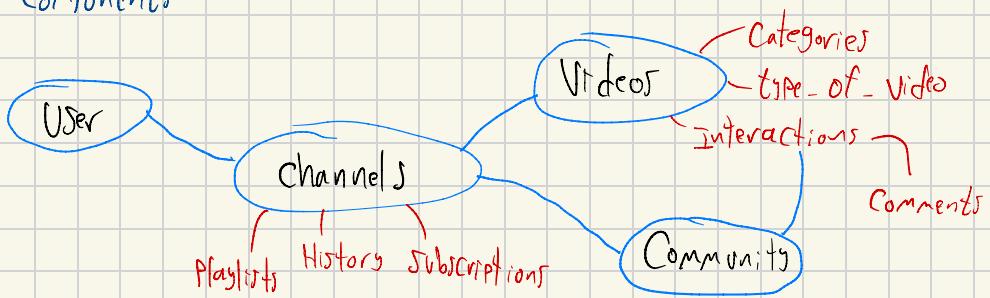
Workshop No. 1

1.

- As a person interested in certain categories, I want to be able to choose a video based on its category so that I don't lose my mind looking for something that entertains me
- As a kid, I want to see videos specially made for kids so that I get entertained and stay safe at the same time
- As a content creator, I want to make playlists so that everybody can watch related videos
- As a common user, I want to subscribe to any channel so that I can see their videos later
- As a common user, I want to save videos for later so that I can watch them whenever I have time
- As a common user, I want to be able to look at a record of videos I've already watched so that I can finish them or rewatch them later
- As a common user, I want to get notifications so that I am aware whenever any content creator uploads a video
- As a Content Creator, I want to make posts (like on X) so that I can interact with my community

2. 10 steps methodology

0. Define Components



1. Define Entities

- | | | |
|-------------------|---------------------------|----------------------------|
| e1. User | e7. Categories | e13. Posts |
| e2. Channel | e8. type_of_video | e14. interactions_on_posts |
| e3. Subscriptions | e9. Interactions_on_Video | |
| e4. Video | e10. Comments | |
| e5. History | e11. Notifications | |
| e6. Playlists | e12. type_notifications | |

2. Define Attributes per Entity

- e1. \Rightarrow Name, Country, Username, Password, id, email
- e2. \Rightarrow Channel_name, FK_User, date_created
- e3. \Rightarrow Id, FK_Channel, FK_Type_Notifications
- e4. \Rightarrow Id, name, FK_Channel, date_uploaded, duration, FK_type_of_video, FK_Categories
- e5. \Rightarrow Id, minute_seen, FK_Channel
- e6. \Rightarrow Id, name, date_created, FK_Channel
- e7. \Rightarrow Id, name
- e8. \Rightarrow Id, name
- e9. \Rightarrow Id, FK_Video, likes_amount, comments_amount, FK_Comments
- e10. \Rightarrow Id, FK_Channel, description, date_posted

- e11 => Id, FK_Channel, FK_Video, FK_Type_Notifications, description
e12 => Id, name, description
e13 => Id, FK_Channel, description, date_posted, image
e14 => Id, FK_Post, likes_amount, comments_amount, FK_Comments

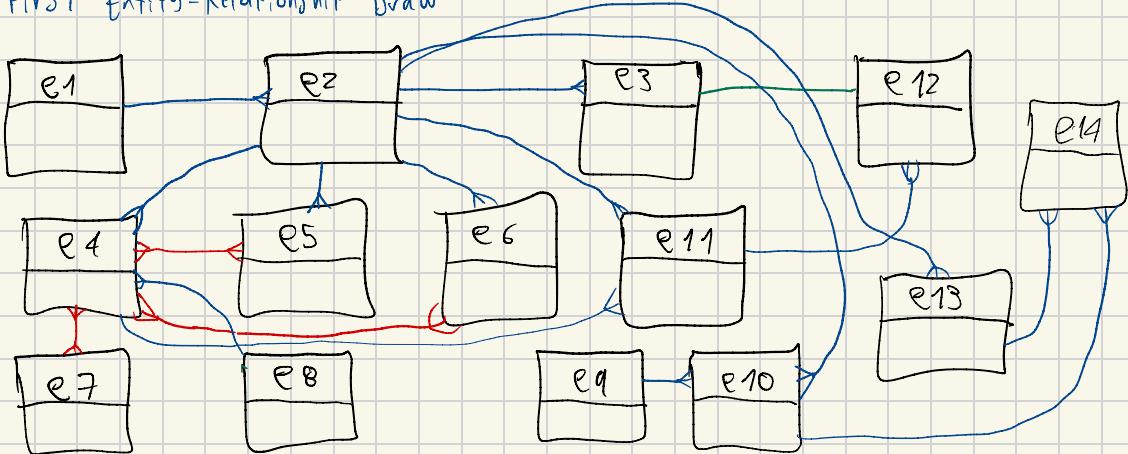
3. Define Relationships

	e1	e2	e3	e4	e5	e6	e7	e8	e9	e10	e11	e12	e13	e14
e1														
e2	x									x	x			
e3	x													
e4					x	x			x					
e5														
e6														
e7		x												
e8		x												
e9										x				
e10									x					
e11											x			
e12	x									x				
e13												x		
e14													x	

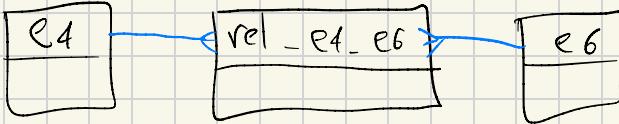
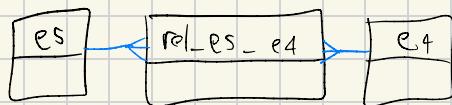
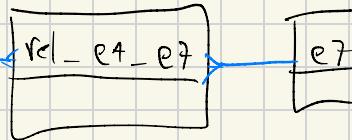
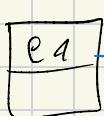
4. Define Relationships Types



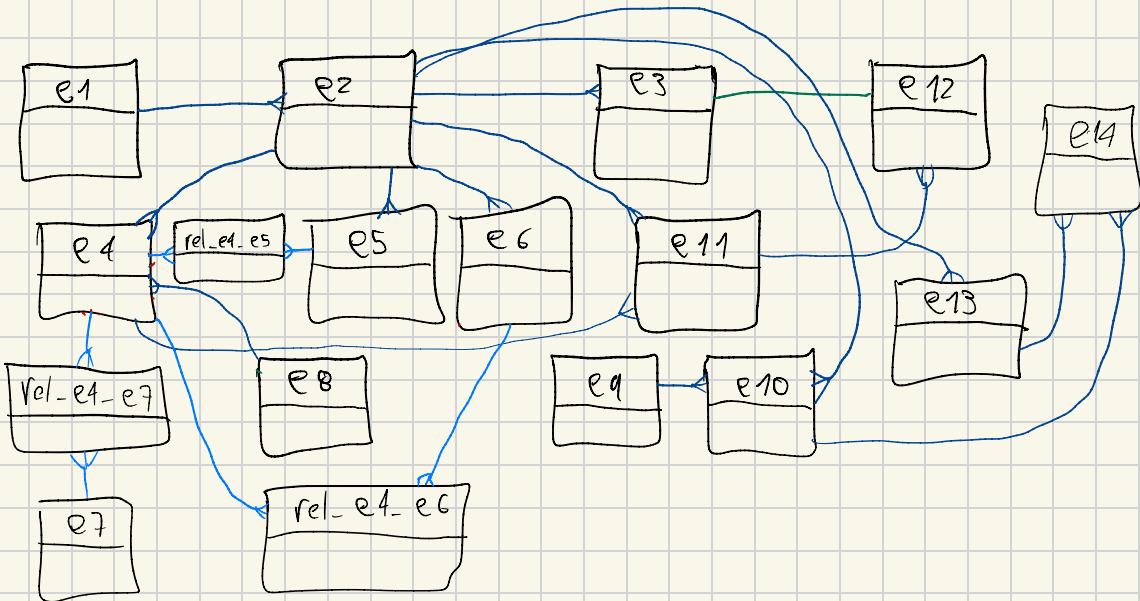
5. First Entity-Relationship Draw



6. first split many-to-many Relationships



8. Second Entities - Relationship Draw



9. Get Data-structure E-R-M 10. Define Constraints

User

Id int **Not Null**
 name varchar **Not Null**
 Country varchar **Not Null**
 Username varchar **Unique Not Null**
 Password varchar **Not Null**
 Email varchar **Unique Not Null**

Channel

Id int auto **Not Null**
 name varchar **Not Null**
 Fk_user int
 date_created int **Not Null**

Subscription

Id int auto **Not Null**
 Fk_channel int
 Fk_type_Notifications int

Video

Id int auto **Not Null**
 name varchar **Not Null**
 Fk_Channel int
 date_uploaded int **Not Null**
 duration varchar **Not Null**
 Fk_type_of_video int

Playlists

Id int auto **Not Null**
 name varchar **Not Null**
 date_created int **Not Null**
 Fk_Channel int

History

Id int auto **Not Null**
 minute_Seen varchar
 Fk_Channel int

Categories

Id int auto **Not Null**
 name varchar **Not Null**

Type_of_video

Id int auto **Not Null**
 name varchar **Not Null**

Interactions_on_Video

Id int auto **Not Null**
 Fk_Video int
 likes_amount int **Not Null**
 comments_amount int **Not Null**
 Fk_Comments int

Comments

Id int auto **Not Null**
 Fk_Channel int
 description varchar **Not Null**
 date_Posted int **Not Null**

Notifications

Id int Auto **Not Null**
 Fk_Channel int
 Fk_Video int
 Fk_Type_Notification int
 description varchar **Not Null**

Type_Notifications

Id int auto **Not Null**
 name varchar **Not Null**
 description varchar **Not Null**

Posts

Id	int	auto	Not Null
Fk_channel	int		
description	varchar	Not Null	
date_posted	int	Not Null	
image			

Interactions_on_Posts

Id	int	auto	
FK_Post	int		
likes_amount	int	Not Null	
comments_amount	int	Not Null	
FK_Comments	int		

3.

- Decided to manage in different entities posts and videos, and separated their interactions for better understanding
- There are not compound Id's, almost all of them are incremental, being the user's id an exception

4.

- Not sure if it is needed to define constraints in foreign keys
- Not sure if it's okay making subscription and type_notifications a one-to-one relationship