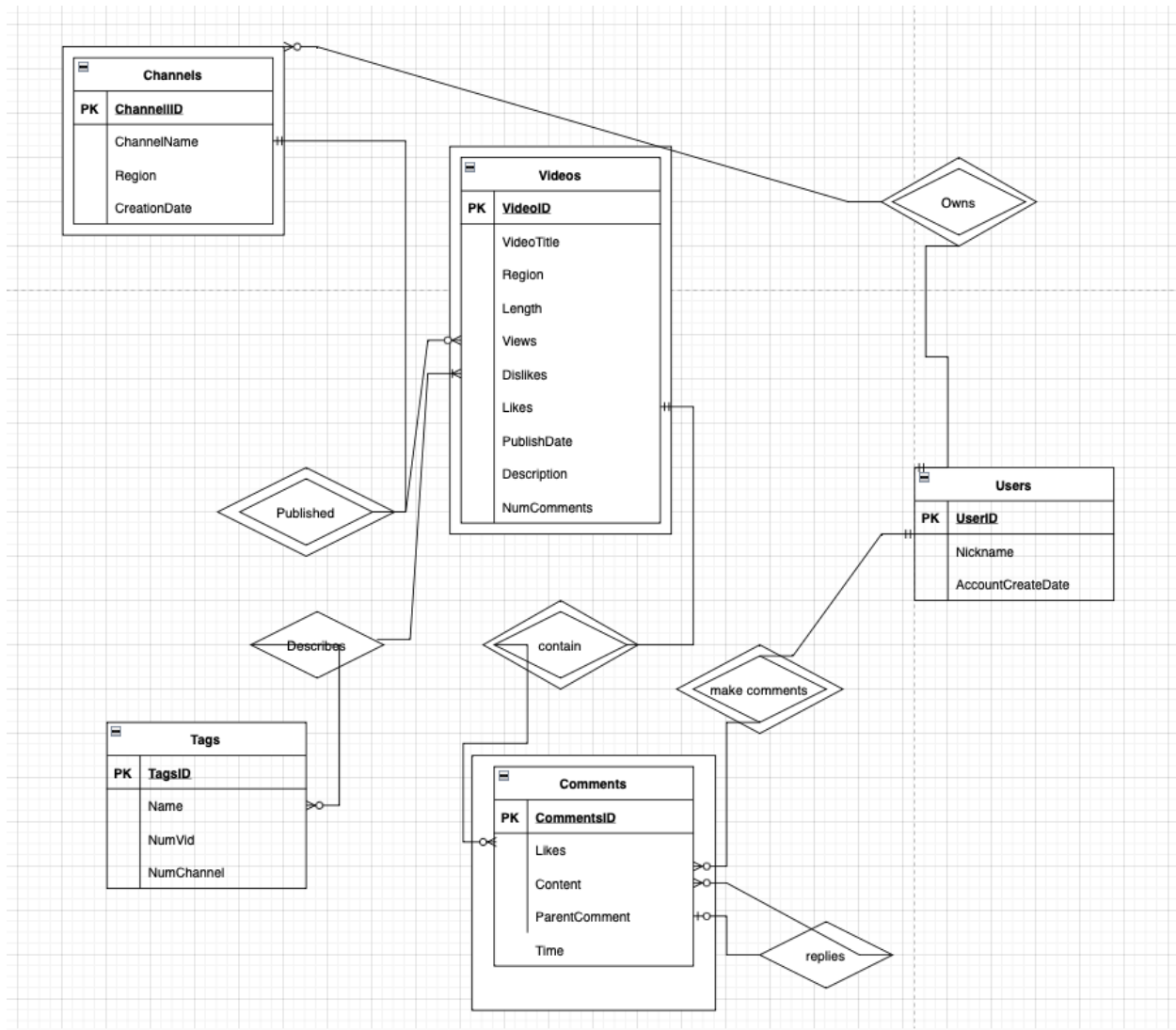


Stage 2 Updates Report



Fixed:

Added relationship descriptions, entity descriptions below, updated weak entities to reflect suggestions, updated tags and videos to not be tag being a weak entity of Videos and with a many-to-many relationship and video relationship. Made videos a weak entity of channels and channels a weak entity of users.

,

We also updated the tables below

TA comments we fixed:

- Comment-reply relationship missing description (-1)
- Entity descriptions missing (-2)
- Shouldn't video be a weak entity of channel? (-1)

- Shouldn't channel be a weak entity user? (-1)
- Tags need not be associated with Videos in schema. Can have a many-to-many relationship.

Assumptions/Relationships for each entity:

Weak Entities:

- Videos are a weak entity to Channels
- Channels are a weak entity to Users
- Comments are a weak entity to Videos and Users

Tags:

- We assume videos have 0 to many tags and tags have 1 to many videos.
- Relationships: tags describe videos

Comments:

- We assume comments must be connected 1 Video and only 1
- Videos can have 0 to many comments
- Comments must have only one User and Users can make multiple comments
- Comments can have 0 to many child comments but only 1 parent comment (relationship to itself)
- Relationships: comments reply to comments, videos contain comments, and users can make comments

Videos:

- We assume videos must be connected to 1 Channel and a Channel can have one to many Videos
- Videos can have 0 to many Tags but a Tag has one to many videos
- Videos can have 0 to many comments but comments are connected to one and only one video.
- Relationships: Videos contain Comments, Videos are published by Channels, Videos are described by Tags

Users:

- We assume Users own 0 to many Channels and Channels must have one and only one user
- Users can make 0 to many comments and comments must have one and only one user
- Relationships: Users make Comments, User owns Channels

Channels:

- We assume Channels must have one and only one User
- We also assume Channels publish 0 to many Videos
- Relationships: Channels publish Videos, Channels are owned by a User

Updated tables

```

Videos(
    VideoID CHAR(64)
    VideoTitle CHAR(128)
    Region CHAR(64),
    Length FLOAT(4),
    Views BIGINT,
    Dislikes BIGINT,
    Likes BIGINT,
    PublishDate DATE,
    NumComments BIGINT,
    ChannelID CHAR(64),
    UserID CHAR(64),
    PRIMARY KEY (VideoID, ChannelID, UserID),
    FOREIGN KEY (ChannelID) REFERENCES Channels(ChannelID), FOREIGN KEY
(UserID) REFERENCES Users(UserID)
)

```

```

Users(
    `UserID` CHAR(64),
    `Nickname` CHAR(128),
    `AccountCreateDate` datetime,
    primary key(`UserID`)
)

```

```

Describes(
    TagsID CHAR(64)
    VideoID CHAR(64)
    ChannelID CHAR(64)
    UserID CHAR(64)
    PRIMARY KEY (VideoID, ChannelID, UserID, TagsID),
    FOREIGN KEY (ChannelID) REFERENCES Channels(ChannelID)
    FOREIGN KEY (UserID) REFERENCES Users(UserID)
    FOREIGN KEY (VideoID) REFERENCES Videos(VideoID)
    FOREIGN KEY (TagsID) REFERENCES Tags(TagsID)
)

```

```

Tags(
    `TagsID` CHAR(64),
    `Name` TEXT,

```

```
    `NumVid` BIGINT,  
    `NumChannel` BIGINT,  
    primary key(`TagsID`)  
)  
  
Channels(  
    `ChannelID` char(64)  
    `ChannelName` CHAR(128)  
    `Region` CHAR(64),  
    `CreationDate` DATE,  
    `UserID` CHAR(64)  
    PRIMARY KEY (ChannelID, UserID),  
    FOREIGN KEY (UserID) REFERENCES Users(UserID)  
)
```