

Milestone 1: Form a Team and Outline a Goal.

CNIT 372

Group Members: Hunter King, Brian Kim, Samyak Lasod

Option Choice: Option A

**• Describe what data you plan to use, what insights can be derived from this data, and why you think the listed insights are important.**

We are planning on using the Youtube trending Video Dataset US that was collected until August 19th. From this data set we can derive which type of videos are popular in each region. Which type of channel and video has the most user/viewer interaction. These types of insights would be important for knowing what viewers from each region look for, and why users are wanting to interact with each channel.

**• Describe how you plan to design the database to store this data and explain your Rationales.**

We plan to design the database to be able to input data such as view count, ranking, likes, dislikes, amount of comments, and type of channel. Within this database we plan to split the data into tables such as Interaction, Channel, and Video content. We chose to include this information specifically because it will be able to give us the best insight into what is currently popular on youtube, what it takes for a video to become trending, and the user interaction as a result of a video going trending.

**o Outline the tables that you plan to work with, describe the column names, their**

**corresponding data types and constraints, and relationships between the tables.**

Table 1: Video

- VideoID (Primary Key) - int
- Title - varchar
- Description - text
- Genre - varchar
- UploadDate - date
- ChannelID (Foreign Key) - int

Table 2: Channel

- ChannelID (Primary Key) - int
- ChannelName - varchar
- SubscriberCount - int
- ChannelCategory - varchar

Table 3: Interaction

- InteractionID (Primary Key) - int
- VideoID (Foreign Key) - int
- ViewCount - int
- Likes - int
- Dislikes - int
- CommentCount - int
- TrendingRank - int

Constraints and Relationships:

- Video - VideoID is the primary key, ChannelID is the foreign key referencing the table Channel. Foreign key ChannelID makes a one to many relationship between the tables Channel and Video.
- Channel - ChannelID is the primary key
- Interaction - InteractionID is the primary key, VideoID is the foreign key referencing the table Video.

• **Describe your teamwork: how did you make the decision about the project goal, list the contribution of each team member.**

We made sure each member answered a question, and made sure to choose a data and the project option which every member agreed on.

**Brian Kim:** Explained why we chose the data we plan on using and which insights we could gain from the data.

**Hunter King:** Made document, explained how we are going to design the database to store the YouTube data and why we chose to design it this way.

**Samyak Lasod:** Made the outline of the tables, their column names, data types and constraints, and relationships between the tables.