

Project – One to Many Relationships

Create a videos table.

- This table should include a unique ID, the title of the video, the length in minutes, and the URL. Populate the table with at least three related videos from YouTube or other publicly available resources.

```
1 CREATE TABLE videos(  
2     Id int PRIMARY KEY,  
3     Title VARCHAR(300),  
4     Length_video int,  
5     Url VARCHAR(300));  
6  
7 INSERT INTO videos ( Id, Title, Length_video, Url )  
8 VALUES (1, 'Marvel Studios' Eternals | Final Trailer', 3, 'https://www.youtube.com/watch?v=x_me3xsvDgk&ab_chanr  
9  
10 INSERT INTO videos ( Id, Title, Length_video, Url )  
11 VALUES (2, 'Star Wars: Visions | Original Trailer | Disney+', 2, 'https://www.youtube.com/watch?v=lle0NNmvIyU&  
12  
13 INSERT INTO videos ( Id, Title, Length_video, Url )  
14 VALUES (3, 'Reveal Trailer | Call of Duty®: Vanguard', 3, 'https://www.youtube.com/watch?v=OQ1CwPhE8KQ&ab_chanr  
15  
16 INSERT INTO videos ( Id, Title, Length_video, Url )  
17 VALUES (4, 'HOUSE OF GUCCI | Official Trailer | MGM Studios', 2, 'https://www.youtube.com/watch?v=pGi3Bgn7U5U&a  
18  
19
```

Data Output	Explain	Messages	Notifications
id [PK] integer	title character varying (300)	length_video integer	url character varying (300)
1	1 Marvel Studios' Eternals Final Trailer	3	https://www.youtube.com/watch?v=x_me3xsvDgk&ab_channel=MarvelEntertainment
2	2 Star Wars: Visions Original Trailer Disney+	2	https://www.youtube.com/watch?v=lle0NNmvIyU&ab_channel=StarWars
3	3 Reveal Trailer Call of Duty®: Vanguard	3	https://www.youtube.com/watch?v=OQ1CwPhE8KQ&ab_channel=CalofDuty
4	4 HOUSE OF GUCCI Official Trailer MGM Studios	2	https://www.youtube.com/watch?v=pGi3Bgn7U5U&ab_channel=MGM

Create and populate Reviewers table.

- Create a second table that provides at least two user reviews for each of at least two of the videos.
 - These should be imaginary reviews that include columns for the user's name ("Asher", "John", etc.), the rating (which could be NULL, or a number between 0 and 5), and a short text review ("Loved it!"). There should be a column that links back to the ID column in the table of videos.

```
21 CREATE TABLE reviewers (  
22     Id int PRIMARY KEY,  
23     User_name VARCHAR(20) NOT NULL,  
24     Rating INT NULL,  
25     Review VARCHAR(1000));  
26  
27 INSERT INTO reviewers ( Id, User_name, Rating, Review)  
28 VALUES ( 1, 'Nicole', 4, 'Cannot wait until it comes out');  
29  
30 INSERT INTO reviewers ( Id, User_name, Rating, Review)  
31 VALUES ( 3, 'Jack', 2, 'Trailer looks okay but I doubt the game will be good');  
32  
33 SELECT * FROM reviewers;  
34
```




Data Output	Explain	Messages	Notifications
id [PK] integer	user_name character varying (20)	rating integer	review character varying (1000)
1	1 Nicole	4	Cannot wait until it comes out
2	3 Jack	2	Trailer looks okay but I doubt the game will be good

Report on Video Reviews.

- Write a JOIN statement that shows information from both tables.

```
35 SELECT * FROM videos
36 FULL JOIN reviewers
37 ON reviewers.id = videos.id;
```

Data Output Explain Messages Notifications

	 id integer	 title character varying (300)	 length_video integer	 url character varying (300)	 id integer	 user_name character varying (20)	 rating integer	 review character varying (
1		1 Marvel Studios' Eternals Final Trailer	3	https://www.youtube.com/watch?v=x_me3xsvD...	1	Nicole	4	Cannot wait until it
2		3 Reveal Trailer Call of Duty®: Vanguard	3	https://www.youtube.com/watch?v=OQ1CwPhE...	3	Jack	2	Trailer looks okay b
3		2 Star Wars: Visions Original Trailer Disney+	2	https://www.youtube.com/watch?v=lle0NNmvly...	[null]	[null]	[null]	[null]
4		4 HOUSE OF GUCCI Official Trailer MGM Studios	2	https://www.youtube.com/watch?v=pGi3Bgn7U...	[null]	[null]	[null]	[null]