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Project: SQL – One to Many Relationships

- 1.) Videos table. Create one table to keep track of the videos. 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     video_id SERIAL PRIMARY KEY,  
3     title VARCHAR(250) UNIQUE NOT NULL,  
4     len_in_min INTEGER NOT NULL,  
5     url TEXT NOT NULL  
6 )
```

Data Output Explain Messages Notifications

CREATE TABLE

Query returned successfully in 89 msec.

```
1 INSERT INTO videos(title, len_in_min, url)  
2 VALUES  
3 ('UPS Delivery Guy vs. Icy Driveway', 1, 'https://www.youtube.com/watch?v=Q_WrhIgNHS8'),  
4 ('Best Animals News Bloopers', 15, 'https://www.youtube.com/watch?v=-PudgyZaLyA'),  
5 ('Best Holiday News Bloopers', 29, 'https://www.youtube.com/watch?v=Jgx7V707Bl8');
```

Data Output Explain Messages Notifications

INSERT 0 3

Query returned successfully in 58 msec.

- 2.) 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.

```
1 CREATE TABLE reviewers(  
2     review_id SERIAL PRIMARY KEY,  
3     video_id INTEGER REFERENCES videos(video_id),  
4     username VARCHAR(70) NOT NULL,  
5     rating smallint,  
6     review_text VARCHAR(250) NOT NULL  
7 )
```

Data Output Explain Messages Notifications

CREATE TABLE

Query returned successfully in 68 msec.

```
1 INSERT INTO reviewers(video_id, username, rating, review_text)  
2 VALUES  
3 (1, 'Asher', 5, 'Loved it!'),  
4 (1, 'John', 1, 'Hated it!'),  
5 (2, 'Liam', 3, 'It was OK.'),  
6 (2, 'James', 2, 'Okey');|
```

Data Output Explain Messages Notifications

INSERT 0 4

Query returned successfully in 59 msec.

3.) Report on Video Reviews. Write a JOIN statement that shows information from both tables.

```
1 SELECT * FROM videos
2 INNER JOIN reviewers
3 ON videos.video_id = reviewers.video_id
```

Data Output Explain Messages Notifications

	video_id integer	title character varying (250)	len_in_min integer	url text	review_id integer	video_id integer
1		1 UPS Delivery Guy vs. Icy Driveway		1 https://www.youtube.com/watch?v=Q_WrhlgNHS8		1
2		1 UPS Delivery Guy vs. Icy Driveway		1 https://www.youtube.com/watch?v=Q_WrhlgNHS8		2
3		2 Best Animals News Bloopers		15 https://www.youtube.com/watch?v=-PudgyZaLyA		3
4		2 Best Animals News Bloopers		15 https://www.youtube.com/watch?v=-PudgyZaLyA		4