SQL Mini Capstone Project

By Jennifer Lopez
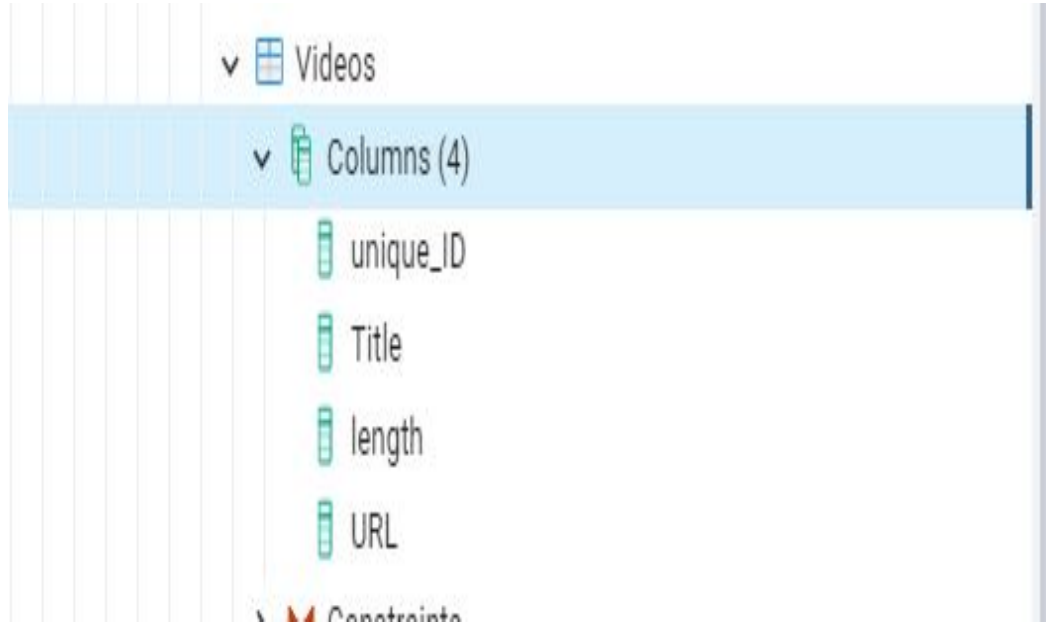
INTRODUCTION TO DATA AND DATABASES

PROJECT

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 SQL educational videos from YouTube or other publicly available resources.

Query & Results: Create a Table- Videos

CREATE TABLE Videos (

Unique_ID BIGSerial NOT NULL PRIMARY KEY,

title VARCHAR(50) NOT NULL,

length TIME NOT NULL,

URL VARCHAR(255) NOT NULL);

Query: Insert Videos from YOUTUBE or Other sources

```sql
INSERT INTO videos (unique_id ,title, length, url)
VALUES
(1739, 'Learn Basic SQL in 15 Minutes | Business Intelligence For Beginners | SQL Tutorial For Beginners 1/3', '17:39',
'https://youtu.be/kbKty5ZVKMY'),
(1020,'SQL Basics Tutorial for Beginners (Practice SQL Queries)', '1:10:20','https://youtu.be/Hl4NZB1XR9c'),
(4456,'SQL for Beginners Tutorial', '00:44:56', 'https://www.youtube.com/watch?v=h0nxCDiD-zg'),
(0414, 'DataCamp intro to SQL', '00:04:14', 'https://www.youtube.com/watch?v=dDoFZyUHMVo'),
(0753, 'What is a Relational Database', '00:07:53', 'https://www.youtube.com/watch?v=OqjJjpjDRLc'),
(1040, 'SQL vs. NoSQL', '00:10:40', 'https://www.youtube.com/watch?v=ORxMMo7it_Y');
```

Running Query after Insertion of Videos

Query   Query History

```
1  select unique_id, title, length, url
2  from videos;
```
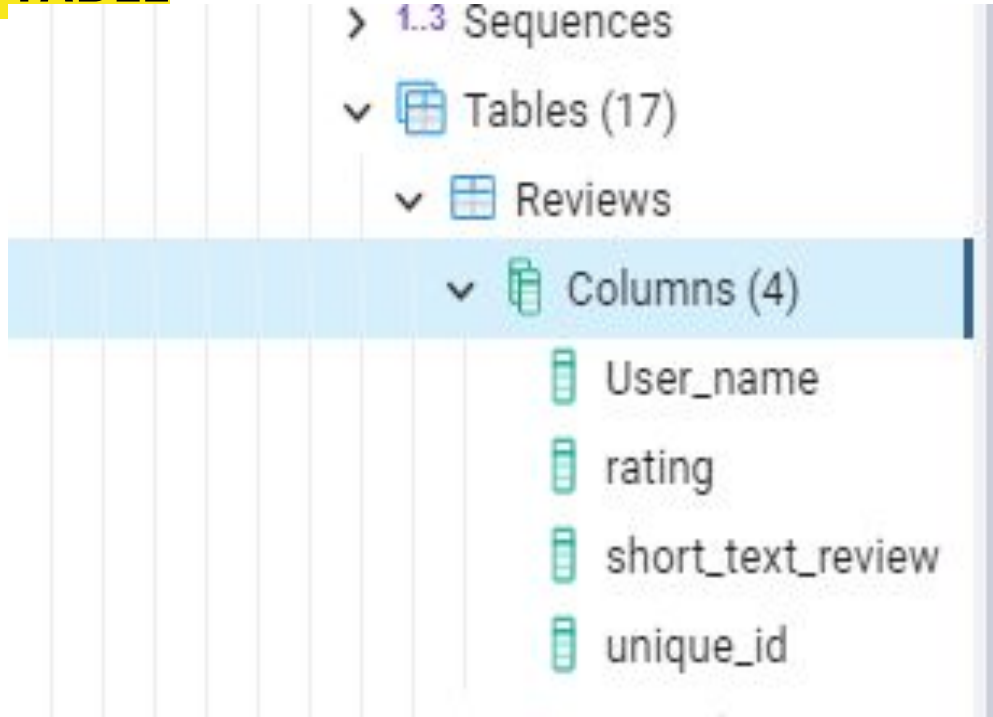
Data output   Messages   Notifications

	unique_id [PK] bigint	title character varying (100)	length time without time zone	url character varying (255)
1	1739	Learn Basic SQL in 15 Minutes | Business Intelligence For Beginners | SQL Tutorial For Beginners...	17:39:00	https://youtu.be/kbKty...
2	1020	SQL Basics Tutorial for Beginners (Practice SQL Queries)	01:10:20	https://youtu.be/HI4NZ...
3	4456	SQL for Beginners Tutorial	00:44:56	https://www.youtube.c...
4	414	DataCamp intro to SQL	00:04:14	https://www.youtube.c...
5	753	What is a Relational Database	00:07:53	https://www.youtube.c...
6	1040	SQL vs. NoSQL	00:10:40	https://www.youtube.c...

QUERY: CREATING REVIEWS TABLE

CREATE TABLE Reviews (

Unique_ID BIGSerial NOT NULL PRIMARY KEY,

user_name VARCHAR(150) NOT NULL,

rating NUMERIC NULL,

short_text_review VARCHAR(255) NOT NULL) ;

> 1..3 Sequences

∨ ⊞ Tables (17)

  ∨ ⊞ Reviews

    ∨ 🗐 Columns (4)

      🗐 User_name

      🗐 rating

      🗐 short_text_review

      🗐 unique_id

Query: Insert Unique_ID, User_name,Rating, short_text_review

INSERT INTO Reviews (unique_id ,user_name, rating, short_text_review)

VALUES

(1739, 'James Mardsen', '5', 'loved it'),

(1020,'Kenny Yu','4', 'fair to watch'),

(4456,'Madison Clair', '3', 'too long'),

(0414, 'Carlos Sanchez', '5', 'loved it'),

(0753, 'Habiba Mohinder', '2', 'boring'),

(1040, 'Tyson Bailey', '4', 'fair to watch');

Run the Query after Insertion of Data : Reviews Table Results

SELECT unique_id,user_name,rating, short_text_review

FROM Reviews

ORDER BY rating **ASC**;

Data output   Messages   Notifications

	unique_id [PK] bigint	user_name character varying (150)	rating numeric	short_text_review character varying (255)
1	753	Habiba Mohinder	2	boring
2	4456	Madison Clair	3	too long
3	1020	Kenny Yu	4	fair to watch
4	1040	Tyson Bailey	4	fair to watch
5	1739	James Mardsen	5	loved it
6	414	Carlos Sanchez	5	loved it

Unique_Ids: **1739 and 414** have the best ratings according to users <u>James Marsden & Carlos Sanchez</u> with a short text reviewed that they loved watching the videos. And Unique_id **753** with the most boring video according to Habiba Mohinder with a rating of 2.

	Data output	Messages	Notifications	

	unique_id [PK] bigint	user_name character varying (150)	rating numeric	short_text_review character varying (255)
1	753	Habiba Mohinder	2	boring
2	4456	Madison Clair	3	too long
3	1020	Kenny Yu	4	fair to watch
4	1040	Tyson Bailey	4	fair to watch
5	1739	James Mardsen	5	loved it
6	414	Carlos Sanchez	5	loved it

SELECT Videos.unique_ID, Reviews.rating, Videos.title, videos.length

FROM videos

INNER JOIN reviews **ON** Videos.unique_ID = Reviews.Unique_id

Order by rating **ASC**;

After running the query ,I observed that the top 2 videos with the best ratings were "Learn Basic SQl in 15 min...", and "DataCamp intro to SQL" and the least rated was "What is a Relational Database" in which rating was not based on the length of the video but based on the content of it.

Data output   Messages   Notifications

	unique_id bigint	rating numeric	title character varying (100)	length time without time zone
1	753	2	What is a Relational Database	00:07:53
2	4456	3	SQL for Beginners Tutorial	00:44:56
3	1020	4	SQL Basics Tutorial for Beginners (Practice SQL Queries)	01:10:20
4	1040	4	SQL vs. NoSQL	00:10:40
5	1739	5	Learn Basic SQL in 15 Minutes	Business Intelligence For Beginners	SQL Tutorial For Beginners...	17:39:00
6	414	5	DataCamp intro to SQL	00:04:14