

SQL FINAL PROJECT



Overview

The final four class hours of this course will be the final project. The project will use all the SQL skills we have covered so far. Be sure to record all code you write in the project workbook.

Part 1

Drop Table Records
123 Sequel Way
Big Data, CA 54321
913-555-2543

Drop Table Records is excited to offer you employment as a **data analyst**.

Drop Table Records has needed a qualified data professional for a long time and is excited for you to join our team!

We look forward to working with you soon!

Best,

Sri Schema and Rob Tables



We will be working with a new database schema for the SQL final project.

The first task of the final project is to create the database schema and import that data. You can download the files needed to create the database from Canvas.

Task 1

Before a band releases a new record, Drop Table Records will work to promote the band and get fans excited for the new record.

We need a query that shows which artists have upcoming album releases, with those who have the nearest album release date listed first. Copy the text of your query below.

Task 2

Drop Table Records also sends bands to play at different venues or events.

Some venues request bands that feature certain instruments. Can you write a query that displays the names of all bands that feature a drummer? Copy the text of your query below.

Task 3

It is important that Drop Table Records has a diversity of different bands signed to its label. We want many artists who represent different styles of music.

One way we determine the diversity in music is by looking at how many bands feature a certain instrument. We need a query that displays the number of bands that feature a certain instrument.

Part 2

Task 1

Our first task is to add the new bands to the correct table. The bands to be added are:

Weezer

TLC

Paramore

Blackpink

Vampire Weekend

DROP TABLE RECORDS ADDS SEVERAL MAJOR ARTISTS

By Nick Musik

nickmusikmusicblog.com

Drop Table Records is a record label based out of Big Data, California.

After several years of slow (but steady) growth, Drop Table Records is experiencing massive success.

There are rumors that the new bands could be featured in an upcoming music festival. If this rumor ends up being true, you will hear it from me first!

Band	First Name	Last Name	Instrument	Home City	Home State
Weezer	Rivers	Cuomo	Vocals	Rochester	New York
Weezer	Brian	Bell	Guitar	Iowa City	Iowa
Weezer	Patrick	Wilson	Drums	Buffalo	New York
Weezer	Scott	Shriner	Bass	Toledo	Ohio
TLC	Tionne	Watkins	Vocals	Des Moines	Iowa
TLC	Rozonda	Thomas	Vocals	Columbus	Georgia
Paramore	Hayley	Williams	Vocals	Franklin	Tennessee
Paramore	Taylor	York	Guitar	Nashville	Tennessee
Paramore	Zac	Farro	Drums	Voorhees Township	New Jersey
Blackpink	Jisoo	Kim	Vocals		South Korea
Blackpink	Jennie	Kim	Vocals		South Korea
Blackpink	Roseanne	Park	Vocals		New Zealand
Blackpink	Lisa	Manoban	Vocals		Thailand
Vampire Weekend	Ezra	Koenig	Vocals	New York	New York
Vampire Weekend	Chris	Baio	Bass	Bronxville	New York
Vampire Weekend	Chris	Tomson	Drums	Upper Freehold Township	New Jersey

Task 2

Drop Table Records has signed a contract with a new venue! Our artists will have the opportunity to perform at the new venue before anyone else!

Can you please add the following venue to the database?

Venue: Twin City Rock House
City: Minneapolis
State: Minnesota
Zip Code: 55414
Seats: 2,000

Part 3

TWIN CITY ROCK HOUSE ANNOUNCES NEW MUSIC FESTIVAL

By Nick Musik

nickmusikmusicblog.com

The rumors are true! Twin City Rock House (TCRH) is a new music venue opening in Minneapolis, Minnesota.

TCRH has partnered with Drop Table Records to host a new music festival. While we don't know who will be performing yet, we do know the performers will be some big names in the music industry.

Stay tuned for more information.

Task 1

We are preparing for the upcoming music festival at the Twin City Rock House. We need to choose which bands will be performing. Most of the bands have already been selected, but we want to give you some input, too.

Select three bands from our band table to perform at the music festival. The festival will take place the first Saturday of next month and will have 2,000 attendees.

Each band will need the gig added to the gig table. Copy the text of your query below.

Task 2

Preparing for the upcoming festival has made us realize that we need a way to quickly view which bands have upcoming gigs.

Create a view that displays the following information ordered by gig date:

- Band ID
- Band name
- Gig venue
- Gig date
- Number of attendees

Copy the text of your query below.

Task 3

When a musician performs in their hometown, we end up selling more merchandise. Concert attendees love to support local musicians.

We would like a view that shows us the location of our venues and the hometowns of our signed artists. Not all our artists are from the United States. If the city column is **NULL** for an artist, we can display their state as “international” instead.

The information we need in this view:

- Band ID
- Band name
- Player first name
- Player last name
- Home city
- Home state
- Gig date
- Venue name
- Venue city
- Venue state

Copy the text of your query below.

Part 4

Task 1

We loved the view you created for us! However, it sometimes displays too much information to be useful.

Can you create a stored procedure that allows us to specify a US state and then displays all players who are from that state?

The information we want to see:

- Band name

- Player first name
- Player last name
- Home state

Copy the text of your query below.

Task 2

You have heard the saying “the show must go on.” We do everything we can to avoid canceling a gig. However, life happens, and sometimes a player has a family emergency or a bad cold.

When a player cannot perform, the first thing we do is try to find another musician to take their place for the night.

We need a stored procedure that allows us to specify which instrument we need filled and displays all players who play that instrument and are not already scheduled for gigs that night.

Copy the text of your query below.

Task 3

To thank you for all your hard work, we are letting you choose the music group that will perform at the end of our festival.

We are willing to pay any amount to get your favorite artist to perform. However, to do so, we will need you to add their information to our database.

Add your favorite artist to our band table and player table. Do not forget to add the gig, too!

Copy the text of your query below.

