

Subqueries and Joins in SQL

Review and Practice

✔ Discussion Prompt: What do you think you'll use?
20 min

✔ Quiz: Module 3 Quiz
10 questions

✔ Quiz: Module 3 Coding Assignment
7 questions

Module 3 Coding Assignment

1. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the [ER diagram](#) 1/1 in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate point answers.

Review Learning Objectives

Using a subquery, find the names of all the tracks for the album "Californication".

```
1 SELECT AlbumId, Name AS Track_names FROM Tracks
2 WHERE AlbumId IN (
3
4 FROM Albums
5 WHERE AlbumId = 1138)
6 );
```

Run

Reset

Try again

What is the title of the album?

Porcelain

Correct

Like

Dislike

Report an issue

Your grade 85.71%

View Feedback We keep your highest score

2. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the [ER diagram](#) 1/1 in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate point answers.

Find the total number of invoices for each customer along with the customer's full name, city and email.

```
1 SELECT FirstName,
2 LastName,
3 Email,
4 City,
5 COUNT(I.CustomerId) AS Invoices
6 FROM Customers C INNER JOIN Invoices I
7 ON C.CustomerId = I.CustomerId
8 GROUP BY C.CustomerId;
```

Run

Reset

After running the query described above, what is the email address of the 5th person, František Wichterlová? Enter the answer below (feel free to copy and paste).

frantisekw@jetbrains.com

Correct

3. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the [ER diagram](#) 1/1 in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate point answers.

Retrieve the track name, album, artistID, and trackID for all the albums.

```
1 SELECT T.Name AS Track_name,
2 A.Name AS Artist,
3 Al.Title AS Album,
4 T.TrackId
5 FROM Tracks T
6 INNER JOIN Albums Al ON T.AlbumId = Al.AlbumId
7 INNER JOIN Artists A ON A.ArtistId = Al.ArtistId;
8
9 -- SELECT T.Name AS Track_name,
10 -- A.Name AS Artist,
11 -- Al.Title AS Album,
12 -- T.TrackId
13 -- FROM ((Tracks T
14 -- INNER JOIN Albums Al ON T.AlbumId = Al.AlbumId)
15 -- INNER JOIN Artists A ON A.ArtistId = Al.ArtistId);
```

Run

Reset

What is the song title of trackID 12 from the "For Those About to Rock We Salute You" album? Enter the answer below.

Breaking The Rules

Correct

4. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the [ER diagram](#) 1/1 in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate point answers.

Retrieve a list with the managers last name, and the last name of the employees who report to him or her.

```
1 -- Example of SELF Join:
2 SELECT M.LastName AS Manager_LastName,
3 E.LastName AS Employee_LastName
4 FROM Employees E, Employees M
5 WHERE E.ReportsTo = M.EmployeeID;
6 -- AND M.LastName="Mitchell";
7
8 -- Example of Inner Join:
9 -- SELECT M.LastName AS Manager_LastName,
10 -- E.LastName AS Employee_LastName
11 -- FROM Employees E INNER JOIN Employees M
12 -- ON E.ReportsTo = M.EmployeeID;
13
14 -- SELECT * FROM Employees;
```

Run

Reset

After running the query described above, who are the reports for the manager named Mitchell (select all that apply)?

☐ Edwards

☒ King

Correct

☒ Callahan

Correct

☐ Johnson

☐ Park

5. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the [ER diagram](#) 1/1 in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate point answers.

Find the name and ID of the artists who do not have albums.

```
1 SELECT Artists.Name AS Artist_Name,
2 Artists.ArtistId,
3 Albums.Title AS Album
4 FROM Artists
5 LEFT JOIN Albums
6 ON Artists.ArtistId = Albums.ArtistId
7 WHERE Album IS NULL;
```

Run

Reset

After running the query described above, two of the records returned have the same last name. Enter that name below.

Gilberto

Correct

6. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the [ER diagram](#) 1/1 in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate point answers.

Use a UNION to create a list of all the employee's and customer's first names and last names ordered by the last name in descending order.

```
1 SELECT FirstName,
2 LastName
3 FROM Employees
4 UNION
5 SELECT FirstName,
6 LastName
7 FROM Customers
8 ORDER BY LastName DESC;
```

Run

Reset

After running the query described above, determine what is the last name of the 6th record? Enter it below. Remember to order things in descending order to be sure to get the correct answer.

Taylor

Correct

7. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the [ER diagram](#) 0/1 in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate point answers.

See if there are any customers who have a different city listed in their billing city versus their customer city.

```
1 SELECT C.FirstName,
2 C.LastName,
3 C.City AS CustomerCity,
4 I.BillingCity
5 FROM Customers C
6 INNER JOIN Invoices I
7 ON C.CustomerId = I.CustomerId
8 WHERE CustomerCity != BillingCity;
```

Run

Reset

Indicate your answer below.

☐ No customers have a different city listed in their billing city versus customer city.

☒ 3 customers have a different city listed in their billing city versus customer city.

☐ 8 customers have a different city listed in their billing city versus customer city.