



# Retrieving data from more than one table

### Introduction

For this activity you will need:

- DB Browser for SQLite
- A **copy** of the dbMusic.db file which you used last lesson
- Your Activity 1 worksheet to remind you of the operators

## Code snippet

Select the Surname, Download, and Title columns from the Members, Downloads, and Tracks tables. Specify the links between the three tables and retrieve the data for Member 1.

- SELECT tblMembers.Surname, tblDownloads.DownlID,
- . tblTracks.Title
- 3 FROM tblMembers, tblDownloads, tblTracks
- 4 WHERE tblMembers.MemberID = tblDownloads.MemberID
- 5 AND tblTracks.TrackID = tblDownloads.TrackID
- 6 AND tblMembers.Surname = "Bibi";

# Task Retrieve data from more than one table

For each question, design an SQL search that will reveal the answer.

**Question 1:** How many tracks has Percy Winn downloaded?

Note: there will be slight variations in learner answers.

Answer

16

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Code

SELECT tblMembers.Firstname, tblMembers.Surname,

tblTracks.Title

FROM tblMembers, tblDownloads, tblTracks

WHERE tblMembers.MemberID = tblDownloads.MemberID

AND tblTracks.TrackID = tblDownloads.TrackID

AND tblMembers.Firstname = "Percy" AND tblMembers.Surname = "Winn";

Question 2: How many pop tracks were downloaded in the year 2012?

Note: there will be slight variations in learner answers.

Answer

8

Code

SELECT tblTracks.Genre

FROM tblMembers, tblDownloads, tblTracks

WHERE tblMembers.MemberID = tblDownloads.MemberID

AND tblTracks.TrackID = tblDownloads.TrackID

AND tblTracks.Genre = "Pop"

AND tblDownloads.Date BETWEEN "2012-01-01" AND

"2012-12-31";

Question 3: What was the title of the first track downloaded in 2014?

Note: there will be slight variations in learner answers.

Answer

My bubble

Code

SELECT tblTracks.Title, tblDownloads.Date FROM tblMembers, tblDownloads, tblTracks

WHERE tblMembers.MemberID = tblDownloads.MemberID

AND tblTracks.TrackID = tblDownloads.TrackID
AND tblDownloads.Date BETWEEN "2014-01-01" AND

"2014-12-31"

ORDER BY tblDownloads.Date ASC;

**Question 4:** How many times has the track Stomp by The Kings been downloaded?

Note: there will be slight variations in learner answers.

Answer

12

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#### Code

SELECT tblTracks.Title
FROM tblMembers, tblDownloads, tblTracks
WHERE tblMembers.MemberID = tblDownloads.MemberID
AND tblTracks.TrackID = tblDownloads.TrackID
AND tblTracks.Title = "Stomp" AND tblTracks.Artist =
"The Kings";

Question 5: How many downloads did Nadim Abe make after 1st January 2013?

Note: there will be slight variations in learner answers.

Answer	18
Code	SELECT tblTracks.Title, tblMembers.Firstname, tblMembers.Surname, tblDownloads.Date; FROM tblMembers, tblDownloads, tblTracks WHERE tblMembers.MemberID = tblDownloads.MemberID AND tblTracks.TrackID = tblDownloads.TrackID AND tblMembers.Firstname = "Nadim" AND tblMembers.Surname = "Abe" AND tblDownloads.Date > "2013-01-01";

## Explorer task

Design and execute your own SQL searches. They must retrieve data from more than one table.

Resources are updated regularly — the latest version is available at: ncce.io/tcc.

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