Subselect and Inner Join Exercises

This is a checkpoint Lab, please submit to your github classroom repository (CheckPoint1)

Sub-Select in Where

Use a sub-select in the "where" clause to answer these – even if you can see alternative queries using a join.

Sakila on Maria

1.   List the names of all of the cities in Indonesia (there are 14)

2.   How many customers made a payment of $6 or more (answer is 589 – what is the query?)

3.   How many films are not in the inventory? (answer is 42)

4.   List longest films (hint max(length)? (there are 10)

Student Applications on SQLite - check the ReadMe file

5.   Who are the students who share the highest GPA? (there are 4 – what is the query?)

6.   How many people have a GPA higher than the average? (answer is 7)

7.   List the names of the students who were accepted somewhere (there are 6)

8.   List the names of the students who applied to an institution but were not accepted anywhere.
   ➢   This is tricky to do in a subselect. If you get six people – but a different six then you are almost there, but you've included people that don't fit the above requirement. The actual answer is two people – Bob and Craig.

Join Exercises

Use the Sakila database on Maria

Two Table Joins

9.   List all of the cities in Indonesia – using a join rather than sub-query

10.   Make a list showing the number of payments for each customer (hint – needs a join and a group by). Order this list by the number of payments to identify the most frequent customers.

Self Join

11.   There are two actors with the *same name* – what is the name of those actors?

Three Table Joins

12.   List the title of the films along with their category

13.   List the title of the films in which THORA TEMPLE appears.

Four Table Joins

14.   List the names and addresses (including city and country) of all of the staff

15.   List the films each customer has rented, ordered by customer name

Six Tables

Getting silly now?

16.   List the number of actors who have been seen in films rented by each customer