

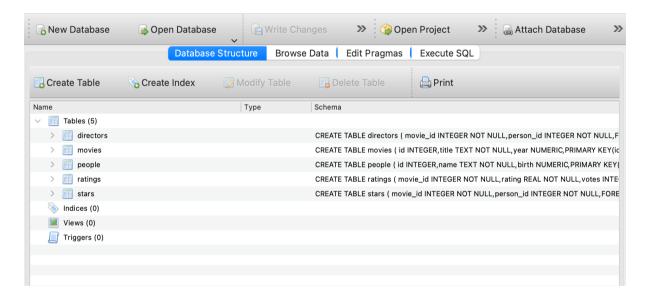
## **Lab Assignment 7 - Table Relationships**

#### **Instructions**

- 1. Answer the below question in the boxes.
- 2. Please submit the assignment through TalentLabs Learning System.

#### **Open the Movies database**

Follow the step illustrated in Chapter 3 to open the Movies database using DB Browser for SQLite. You should see 5 tables in the database.



### Database Study Exercises

Please try to answer the following questions by studying the movie databases. To be specific, please open up each of the tables and try to understand the meaning of each table and column.

If you need some more references or information, you can also read the following description:

There are 5 tables in the database, including movies, ratings, directors, stars, and people.

The core of the database is "movies", which stores all the movie entries. There is an id column in the movies table which serves as the unique identifier of the movies.

The ratings table stores the average ratings of each movies, and could be linked back to the

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movies table with the movie\_id column.

Another important table is the people table. It stores the details of the people(actors and directors) who are related to at least one of the movies. Each person in the table got assigned with a unique key.

However, there is no information about who is acting or directing which movies from the people table. The relationships between "acting" and "directing" are stored in the "directors" and "stars" table.

### **Questions**

1.	What is the	relationship	between	movies	and	ratings?	? Is it a	one-to-one	relations	ship,
	one-to-many	relationship	or many	-to-man	y rela	ationshi	p?			

_	One-to-	One	relation	chin
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2.	What is the	relationship	between	movies	<ul> <li>directors</li> </ul>	<mark>s - people</mark> ?	What is	the f	unction	of
	having the d	lirectors tab	le?							

- Many-to-Many relationship
- Directors table have a movie\_id column that links to the movies table's id column and a person\_id column that can link to the people table's id column

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- id

4. What is the primary key in the people table?

id

- 5. What is the foreign key in the ratings table? What is the purpose of it?
  - movie\_id. To establish a relationship between the movies table and ratings table such as identifying which movie the ratings are for by linking from the ratings table's movie\_id column to the movies table's id column

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- 6. List another many-to-many relationship in the movies database that was not mentioned above yet. What are the tables involved?
  - The tables involved in this relationship are:
  - movies table
  - people table
  - **stars table**: This is the junction table that links the **movies** and **people** tables, indicating which actors (people) are in which movies.

The **stars** table connects **movies** and **people**, allowing a single movie to have multiple actors and a single actor to appear in multiple movies, thus establishing a many-to-many relationship.

- End of Assignment -