

Challenge 12: Sequels in SQL

Friday, April 7, 2017 12:55 PM

1

CREATE TABLE movies (id INTEGER PRIMARY KEY

2

AUTOINCREMENT,

3

title TEXT,

4

released INTEGER,

5

sequel_id INTEGER);

6

INSERT INTO movies

7

VALUES (1, "Harry Potter and the

8

Philosopher's Stone", 2001, 2);

9

INSERT INTO movies

10

VALUES (2, "Harry Potter and the Chamber

11

of Secrets", 2002, 3);

12

INSERT INTO movies

13

VALUES (3, "Harry Potter and the Prisoner of

14

Azkaban", 2004, 4);

15

INSERT INTO movies

16

VALUES (4, "Harry Potter and the Goblet

17

of Fire", 2005, 5);

18

INSERT INTO movies

19

VALUES (5, "Harry Potter and the Order of the

20

Phoenix", 2007, 6);

21

INSERT INTO movies

22

VALUES (6, "Harry Potter and the Half-Blood

23

Prince", 2009, 7);

24

INSERT INTO movies

25

VALUES (7, "Harry Potter and the Deathly

26

Hallows – Part 1", 2010, 8);

27

INSERT INTO movies

28

VALUES (8, "Harry Potter and the Deathly

29

Hallows – Part 2", 2011, NULL);

Undo

Start over

Step 1/1

Finish challenge!

Onwards!

DATABASE SCHEMA

movies	8 rows
id (PK)	INTEGER
title	TEXT
released	INTEGER
sequel_id	INTEGER

RESULTS

title	Sequel Name
Harry Potter and the Philosopher's Stone	Harry Potter and the Chamber of Secrets
Harry Potter and the Chamber of Secrets	Harry Potter and the Prisoner of Azkaban
Harry Potter and the Prisoner of Azkaban	Harry Potter and the Goblet of Fire
Harry Potter and the Goblet of Fire	Harry Potter and the Order of the Phoenix
Harry Potter and the Order of the Phoenix	Harry Potter and the Half-Blood Prince
Harry Potter and the Half-Blood Prince	Harry Potter and the Deathly Hallows – Part 1
Harry Potter and the Deathly Hallows – Part 1	Harry Potter and the Deathly Hallows – Part 2

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Step 1

We've created a table with all the 'Harry Potter' movies, with a sequel_id column that matches the id of the sequel for each movie. Issue a SELECT that will show the title of each movie next to its sequel's title (or NULL if it doesn't have a sequel).

```
CREATE TABLE movies (id INTEGER PRIMARY KEY
AUTOINCREMENT,
title TEXT,
released INTEGER,
sequel_id INTEGER);

INSERT INTO movies
VALUES (1, "Harry Potter and the Philosopher's
Stone", 2001, 2);
INSERT INTO movies
VALUES (2, "Harry Potter and the Chamber of
Secrets", 2002, 3);
INSERT INTO movies
VALUES (3, "Harry Potter and the Prisoner of
Azkaban", 2004, 4);
INSERT INTO movies
VALUES (4, "Harry Potter and the Goblet of Fire",
2005, 5);
INSERT INTO movies
VALUES (5, "Harry Potter and the Order of the
Phoenix ", 2007, 6);
INSERT INTO movies
VALUES (6, "Harry Potter and the Half-Blood
Prince", 2009, 7);
INSERT INTO movies
VALUES (7, "Harry Potter and the Deathly
Hallows – Part 1", 2010, 8);

INSERT INTO movies
VALUES (8, "Harry Potter and the Deathly
Hallows – Part 2", 2011, NULL);
```

```
/* SELECT movies.title, sequels.title
FROM movies
LEFT OUTER JOIN movies sequels
ON movies.id = sequels.sequel_id;
*/

SELECT movies.title, sequel.title AS "Sequel Name"
FROM movies
LEFT OUTER JOIN movies AS sequel
ON sequel.id = movies.sequel_id;

/* SELECT movies.title, sequels.title as "Sequel
Name" FROM movies
JOIN movies sequels
ON movies.id = sequels.sequel_id;
ORDER BY movies.released;
*/
```