

## # SQL Homework

The Dominion Cinema are having a Marvel Movie Marathon! They have asked you to help maintain their database of movies with times and attendees.

## To access the database:

First, create a database called 'marvel'

```

```
# terminal
createdb marvel
```
```

Next, run the provided SQL script to populate your database:

```

```
# terminal
psql -d marvel -f marvel.sql
```
```

Use the supplied data as the source of data to answer the questions. Copy the SQL command you have used to get the answer, and paste it below the question, along with the result they gave.

## Questions

1. Return ALL the data in the 'movies' table.

```
SELECT * FROM movies;
 id | title | year | show_time
-----+-----+-----+-----
 1 | Iron Man | 2008 | 19:55
 2 | The Incredible Hulk | 2008 | 18:40
 3 | Iron Man 2 | 2010 | 21:55
 4 | Thor | 2011 | 16:35
 5 | Captain America: The First Avenger | 2011 | 13:25
 6 | Avengers Assemble | 2012 | 22:05
 7 | Iron Man 3 | 2013 | 23:10
 8 | Thor: The Dark World | 2013 | 12:25
 9 | Batman Begins | 2005 | 14:00
10 | Captain America: The Winter Soldier | 2014 | 14:45
11 | Guardians of the Galaxy | 2014 | 18:55
12 | Avengers: Age of Ultron | 2015 | 20:40
13 | Ant-Man | 2015 | 13:50
14 | Captain America: Civil War | 2016 | 21:30
15 | Doctor Strange | 2016 | 17:55
(15 rows)
```

2. Return ONLY the name column from the 'people' table

```
SELECT name FROM people;
 name
-----
```

Euan Bell  
Pauline Cairns  
Yang Chen  
Ruairidh Grass  
Hannah Green  
Hamish Hoad  
Andrew Laughlin  
Jo Malo  
Duncan Marjoribanks  
Juan Mata Ruiz  
Paul McPhail Stevenson  
Sarah Murphy  
Katy Preston  
Richard Ramson  
Iain Rogerson  
Davinda Sanders  
Joe Stafford  
Daniel Stewart  
Luis Tejero  
Colin Tindle  
Rachel Westwater  
Andrew Smith  
Zsolt Podoba-Szalai  
(23 rows)

3.Oops! Someone at CodeClan spelled Davina's name wrong! Change it to reflect the proper spelling (change 'Davinda Sanders' to 'Davina Sanders').

```
UPDATE people SET name = 'Davina Sanders' WHERE name = 'Davinda Sanders';
```

```
-----  
Euan Bell  
Pauline Cairns  
Yang Chen  
Ruairidh Grass  
Hannah Green  
Hamish Hoad  
Andrew Laughlin  
Jo Malo  
Duncan Marjoribanks  
Juan Mata Ruiz  
Paul McPhail Stevenson  
Sarah Murphy  
Katy Preston  
Richard Ramson  
Iain Rogerson  
Joe Stafford  
Daniel Stewart  
Luis Tejero  
Colin Tindle  
Rachel Westwater  
Andrew Smith  
Zsolt Podoba-Szalai
```

Davina Sanders  
(23 rows)

4. Return ONLY your name from the 'people' table.

```
SELECT * FROM people WHERE name = 'Andrew Laughlin';
```

id	name
7	Andrew Laughlin

(1 row)

5. The cinema is showing 'Batman Begins', but Batman is DC, not Marvel! Delete the entry from the 'movies' table.

```
DELETE FROM movies WHERE title = 'Batman Begins';
DELETE 1
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```

6. Create a new entry in the 'people' table with the name of one of the instructors.

```
INSERT INTO people(name) VALUES ('Sandy McMillan');
SELECT name FROM people;
Rachel Westwater
Andrew Smith
Zsolt Podoba-Szalai
Sandy McMillan
(24 rows)
```

7. Zsolt, has decided to hijack our movie evening, Remove him from the table of people.

```
DELETE FROM people WHERE name = 'Zsolt Podoba-Szalai';
SELECT name FROM people;
Luis Tejero
Colin Tindle
Rachel Westwater
Andrew Smith
(22 rows)
```

8. Somehow the list of people includes two people named 'Andrew'. Change these entries to the proper names ('Jeff 4', 'Jeff 5')

```
UPDATE people SET name = 'Jeff 4' WHERE name = 'Andrew Laughlin';
UPDATE people SET name = 'Jeff 5' WHERE name = 'Andrew Smith';
SELECT name FROM people;
Luis Tejero
Colin Tindle
Rachel Westwater
Zsolt Podoba-Szalai
Jeff 4
Jeff 5
(23 rows)
```

9. The cinema has just heard that they will be holding an exclusive midnight showing of 'Guardians of the Galaxy 2'!! Create a new entry

in the 'movies' table to reflect this.

```
INSERT INTO movies(title) VALUES ('Guardians of the Galaxy 2');
SELECT title FROM movies;
title
```

```
-----
Iron Man
The Incredible Hulk
Iron Man 2
Thor
Captain America: The First Avenger
Avengers Assemble
Iron Man 3
Thor: The Dark World
Batman Begins
Captain America: The Winter Soldier
Guardians of the Galaxy
Avengers: Age of Ultron
Ant-Man
Captain America: Civil War
Doctor Strange
Guardians of the Galaxy 2
(16 rows)
```

10. The cinema would also like to make the Guardian movies a back to back feature. Update the 'Guardians of the Galaxy' show time from 18:55 to 21:30

```
UPDATE movies SET show_time = 21.30 WHERE title = 'Guardians of
the Galaxy';
SELECT (title, show_time) FROM movies;
row
```

```
-----
("Iron Man",19:55)
("The Incredible Hulk",18:40)
("Iron Man 2",21:55)
(Thor,16:35)
("Captain America: The First Avenger",13:25)
("Avengers Assemble",22:05)
("Iron Man 3",23:10)
("Thor: The Dark World",12:25)
("Batman Begins",14:00)
("Captain America: The Winter Soldier",14:45)
("Avengers: Age of Ultron",20:40)
(Ant-Man,13:50)
("Captain America: Civil War",21:30)
("Doctor Strange",17:55)
("Guardians of the Galaxy",21.30)
(15 rows)
```

→ CCCinema\_homework git:(master) x

## Extension

1. Research how to delete multiple entries from your table in a single command.

You could do the DELETE command using from and where, using id numbers

You could also use DELETE FROM table\_name, which would delete every record in that table

In this specific case you could do the following:

```
DELETE FROM people WHERE name IN ('Andrew Smith', 'Andrew Laughlin');  
SELECT name FROM people
```