SQL QUERIES

TASK-1

Table: Movies

Title
Toy Story
A Bug's Life
Toy Story 2
Monsters, Inc.
Finding Nemo
The Incredibles
Cars
Ratatouille
WALL-E
Up

```
SELECT title FROM movies
```

Exercise 1 — Tasks

1. Find the `title` of each film ✓
2. Find the `director` of each film
3. Find the `title` and `director` of each film
4. Find the `title` and `year` of each film
5. Find `all` the information about each film

Stuck? Read this task's Solution.

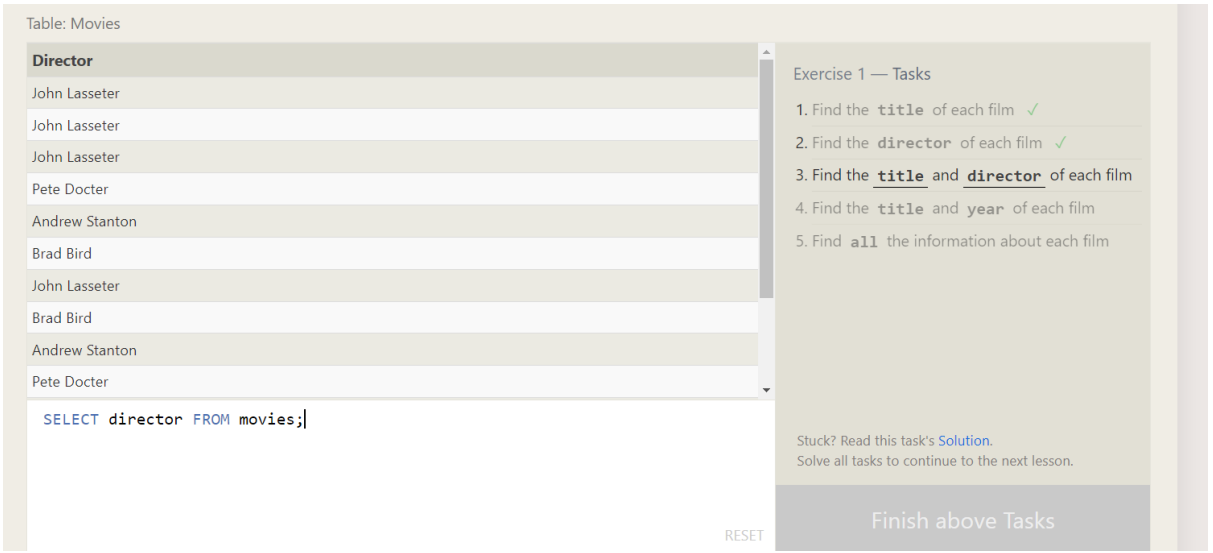


Table: Movies

Director
John Lasseter
John Lasseter
John Lasseter
Pete Docter
Andrew Stanton
Brad Bird
John Lasseter
Brad Bird
Andrew Stanton
Pete Docter

```
SELECT director FROM movies;
```

RESET

Exercise 1 — Tasks

1. Find the `title` of each film ✓
2. Find the `director` of each film ✓
3. Find the `title` and `director` of each film
4. Find the `title` and `year` of each film
5. Find `all` the information about each film

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: Movies

Director	Title
John Lasseter	Toy Story
John Lasseter	A Bug's Life
John Lasseter	Toy Story 2
Pete Docter	Monsters, Inc.
Andrew Stanton	Finding Nemo
Brad Bird	The Incredibles
John Lasseter	Cars
Brad Bird	Ratatouille
Andrew Stanton	WALL-E
Pete Docter	Up

```
SELECT director,title FROM movies;
```

RESET

Exercise 1 — Tasks

1. Find the `title` of
2. Find the `director`
3. Find the `title` and
✓
4. Find the `title` and
5. Find `all` the inform

Stuck? Read this task's So
Solve all tasks to continue

Finish ab

Table: Movies

Year	Title
1995	Toy Story
1998	A Bug's Life
1999	Toy Story 2
2001	Monsters, Inc.
2003	Finding Nemo
2004	The Incredibles
2006	Cars
2007	Ratatouille
2008	WALL-E
2009	Up

```
SELECT year,title FROM movies;
```

RESET

Exercise 1 — Tasks

1. Find the `title` of each film ✓
2. Find the `director` of each film ✓
3. Find the `title` and `director` of each film ✓
4. Find the `title` and `year` of each film ✓
5. Find `all` the information about each film

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

need for each task.

Table: Movies

Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
4	Monsters, Inc.	Pete Docter	2001	92
5	Finding Nemo	Andrew Stanton	2003	107
6	The Incredibles	Brad Bird	2004	116
7	Cars	John Lasseter	2006	117
8	Ratatouille	Brad Bird	2007	115
9	WALL-E	Andrew Stanton	2008	104
10	Up	Pete Docter	2009	101

```
SELECT * FROM movies;
```

RESET

Exercise 1 — Tasks

1. Find the `title` of each film ✓
2. Find the `director` of each film ✓
3. Find the `title` and `director` of each film ✓
4. Find the `title` and `year` of each film ✓
5. Find `all` the information about each film ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-2

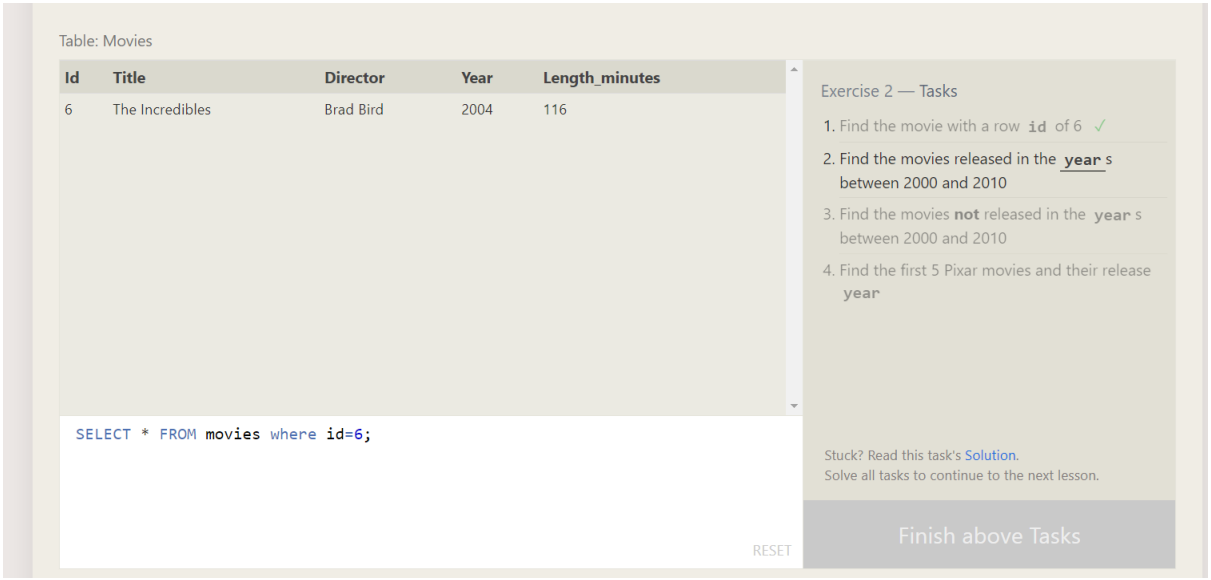


Table: Movies

Id	Title	Director	Year	Length_minutes
6	The Incredibles	Brad Bird	2004	116

```
SELECT * FROM movies where id=6;
```

RESET

Exercise 2 — Tasks

1. Find the movie with a row `id` of 6 ✓
2. Find the movies released in the `year`s between 2000 and 2010
3. Find the movies **not** released in the `year`s between 2000 and 2010
4. Find the first 5 Pixar movies and their release `year`

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

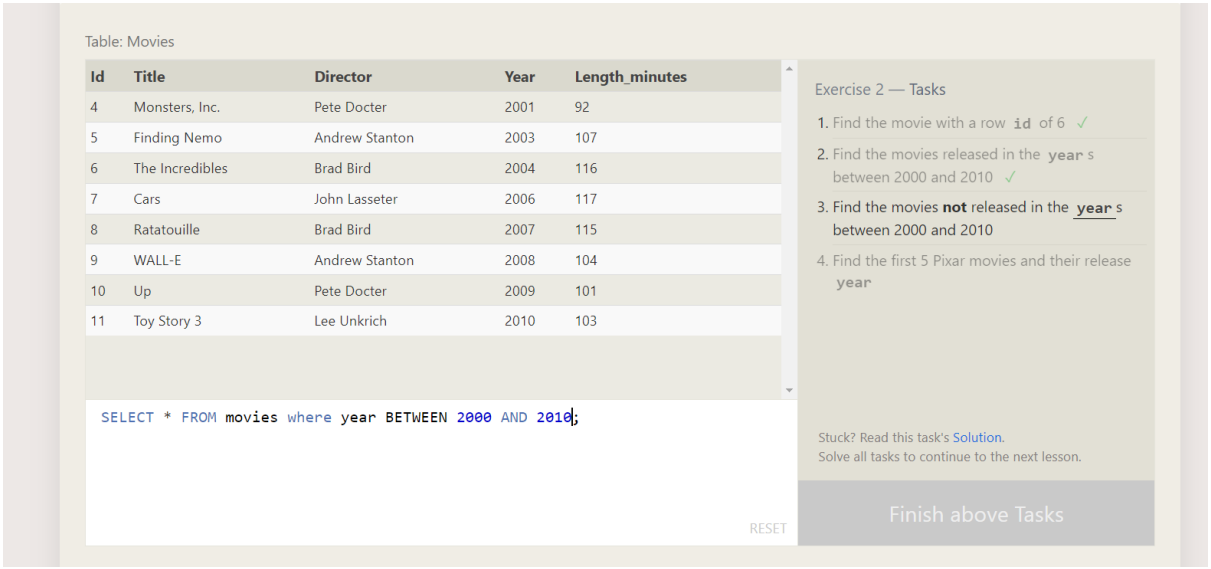


Table: Movies

Id	Title	Director	Year	Length_minutes
4	Monsters, Inc.	Pete Docter	2001	92
5	Finding Nemo	Andrew Stanton	2003	107
6	The Incredibles	Brad Bird	2004	116
7	Cars	John Lasseter	2006	117
8	Ratatouille	Brad Bird	2007	115
9	WALL-E	Andrew Stanton	2008	104
10	Up	Pete Docter	2009	101
11	Toy Story 3	Lee Unkrich	2010	103

```
SELECT * FROM movies where year BETWEEN 2000 AND 2010;
```

RESET

Exercise 2 — Tasks

1. Find the movie with a row `id` of 6 ✓
2. Find the movies released in the `year`s between 2000 and 2010 ✓
3. Find the movies **not** released in the `year`s between 2000 and 2010
4. Find the first 5 Pixar movies and their release `year`

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: Movies

Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
12	Cars 2	John Lasseter	2011	120
13	Brave	Brenda Chapman	2012	102
14	Monsters University	Dan Scanlon	2013	110

```
SELECT * FROM movies where year NOT BETWEEN 2000 AND 2010;
```

RESET

Exercise 2 — Tasks

1. Find the movie with a row `id` of 6 ✓
2. Find the movies released in the `year`s between 2000 and 2010 ✓
3. Find the movies **not** released in the `year`s between 2000 and 2010 ✓
4. Find the first 5 Pixar movies and their release `year`

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Title	Year
Toy Story	1995
A Bug's Life	1998
Toy Story 2	1999
Monsters, Inc.	2001
Finding Nemo	2003

```
SELECT title,year FROM movies limit 5;
```

RESET

Exercise 2 — Tasks

1. Find the movie with a row `id` of 6 ✓
2. Find the movies released in the `year`s between 2000 and 2010 ✓
3. Find the movies **not** released in the `year`s between 2000 and 2010 ✓
4. Find the first 5 Pixar movies and their release `year` ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-3

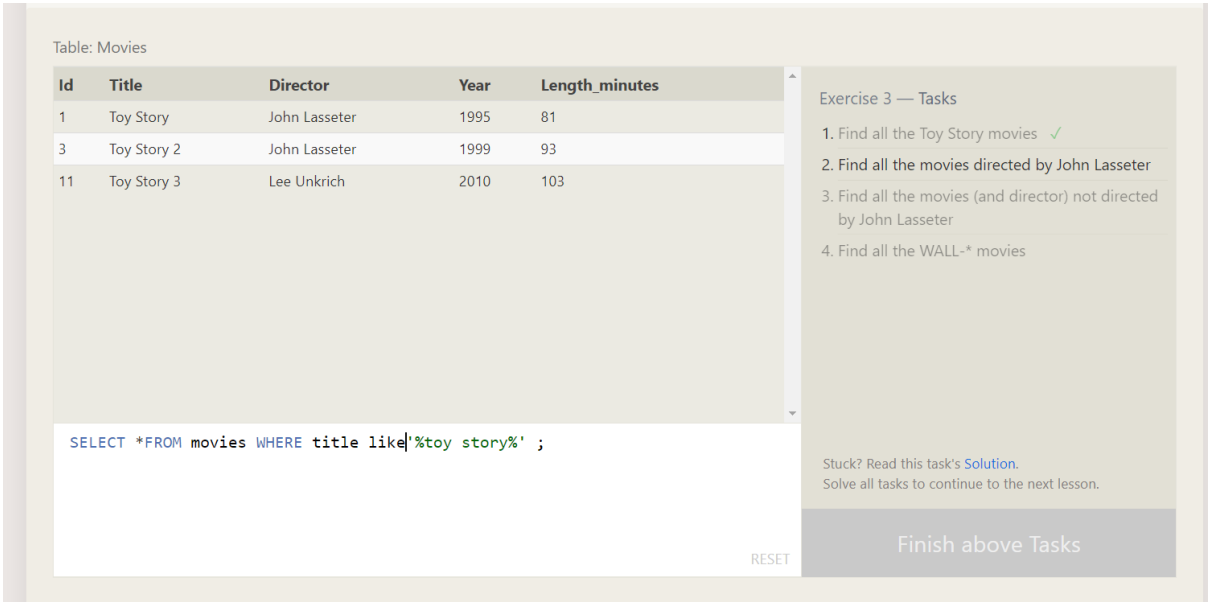


Table: Movies

Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
3	Toy Story 2	John Lasseter	1999	93
11	Toy Story 3	Lee Unkrich	2010	103

```
SELECT *FROM movies WHERE title like'%toy story%' ;
```

RESET

Exercise 3 — Tasks

1. Find all the Toy Story movies ✓
2. Find all the movies directed by John Lasseter
3. Find all the movies (and director) not directed by John Lasseter
4. Find all the WALL-* movies

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

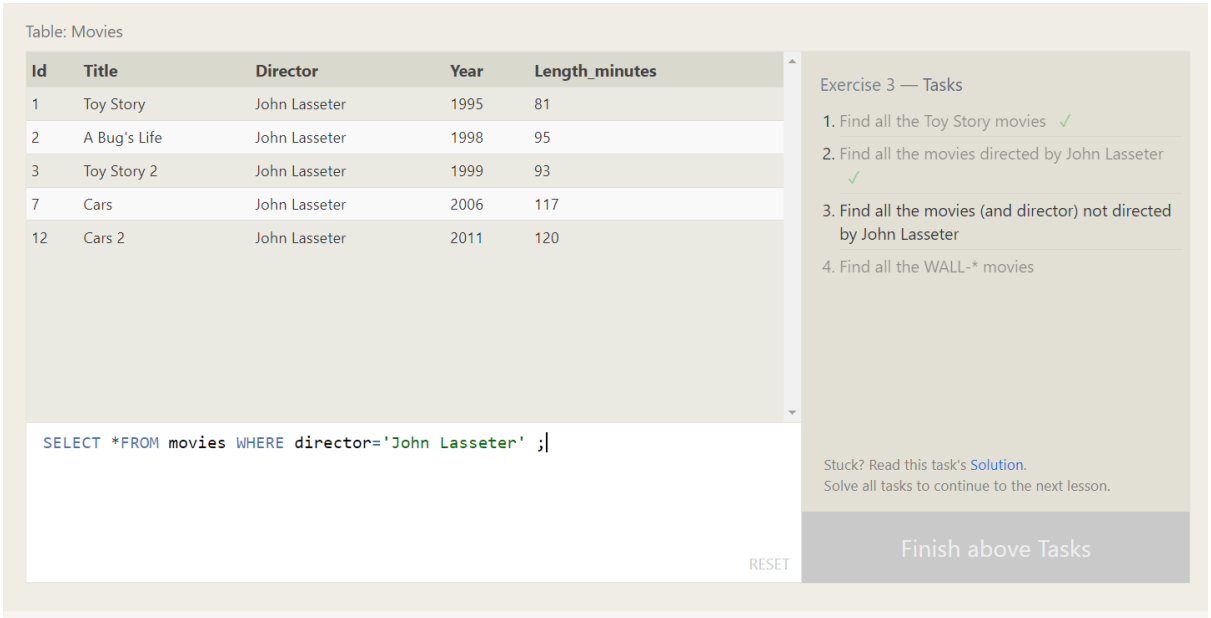


Table: Movies

Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
7	Cars	John Lasseter	2006	117
12	Cars 2	John Lasseter	2011	120

```
SELECT *FROM movies WHERE director='John Lasseter' ;
```

RESET

Exercise 3 — Tasks

1. Find all the Toy Story movies ✓
2. Find all the movies directed by John Lasseter ✓
3. Find all the movies (and director) not directed by John Lasseter
4. Find all the WALL-* movies

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

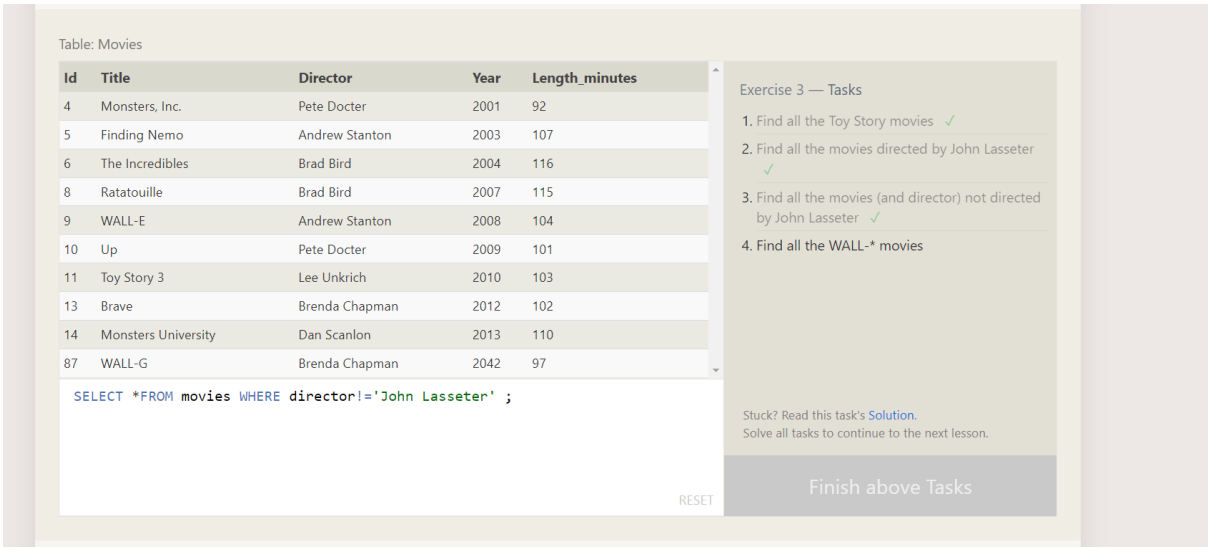


Table: Movies

Id	Title	Director	Year	Length_minutes
4	Monsters, Inc.	Pete Docter	2001	92
5	Finding Nemo	Andrew Stanton	2003	107
6	The Incredibles	Brad Bird	2004	116
8	Ratatouille	Brad Bird	2007	115
9	WALL-E	Andrew Stanton	2008	104
10	Up	Pete Docter	2009	101
11	Toy Story 3	Lee Unkrich	2010	103
13	Brave	Brenda Chapman	2012	102
14	Monsters University	Dan Scanlon	2013	110
87	WALL-G	Brenda Chapman	2042	97

```
SELECT *FROM movies WHERE director!='John Lasseter' ;
```

RESET

Exercise 3 — Tasks

1. Find all the Toy Story movies ✓
2. Find all the movies directed by John Lasseter ✓
3. Find all the movies (and director) not directed by John Lasseter ✓
4. Find all the WALL-* movies

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

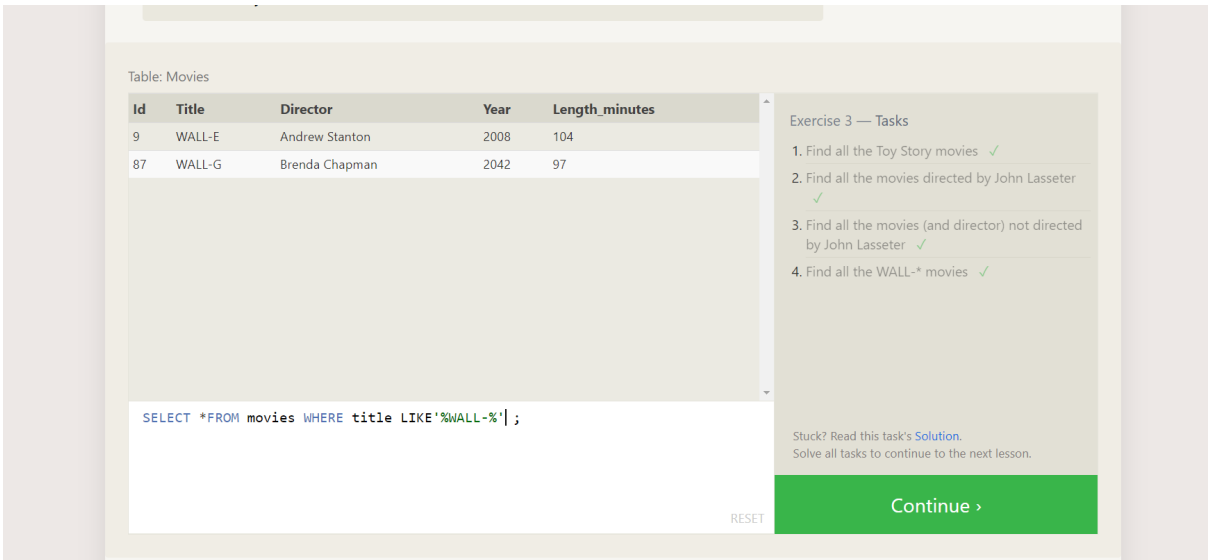


Table: Movies

Id	Title	Director	Year	Length_minutes
9	WALL-E	Andrew Stanton	2008	104
87	WALL-G	Brenda Chapman	2042	97

```
SELECT *FROM movies WHERE title LIKE'%WALL-%' ;
```

RESET

Exercise 3 — Tasks

1. Find all the Toy Story movies ✓
2. Find all the movies directed by John Lasseter ✓
3. Find all the movies (and director) not directed by John Lasseter ✓
4. Find all the WALL-* movies ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-4

Table: Movies

Director
Andrew Stanton
Brad Bird
Brenda Chapman
Dan Scanlon
John Lasseter
Lee Unkrich
Pete Docter

```
SELECT DISTINCT director FROM MOVIES ORDER BY director ;
```

RESET

Exercise 4 — Tasks

1. List all directors of Pixar movies (alphabetically), without duplicates ✓
2. List the last four Pixar movies released (ordered from most recent to least)
3. List the **first** five Pixar movies sorted alphabetically
4. List the **next** five Pixar movies sorted alphabetically

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: Movies

Id	Title	Director	Year	Length_minutes
3	Monsters University	Dan Scanlon	2013	110
9	Brave	Brenda Chapman	2012	102
12	Cars 2	John Lasseter	2011	120
4	Toy Story 3	Lee Unkrich	2010	103

```
SELECT *FROM MOVIES ORDER BY YEAR DESC LIMIT 4;
```

RESET

Exercise 4 — Tasks

1. List all directors of Pixar movies (alphabetically), without duplicates ✓
2. List the last four Pixar movies released (ordered from most recent to least) ✓
3. List the **first** five Pixar movies sorted alphabetically
4. List the **next** five Pixar movies sorted alphabetically

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: Movies

Id	Title	Director	Year	Length_minutes
14	A Bug's Life	John Lasseter	1998	95
9	Brave	Brenda Chapman	2012	102
10	Cars	John Lasseter	2006	117
12	Cars 2	John Lasseter	2011	120
5	Finding Nemo	Andrew Stanton	2003	107

```
SELECT *FROM MOVIES ORDER BY TITLE  ASC  LIMIT 5;
```

RESET

Exercise 4 — Tasks

1. List all directors of Pixar movies (alphabetically), without duplicates ✓
2. List the last four Pixar movies released (ordered from most recent to least) ✓
3. List the **first** five Pixar movies sorted alphabetically ✓
4. List the **next** five Pixar movies sorted alphabetically

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Next – SQL Review: Simple SELECT Queries

Find SQLBolt useful? Please consider

Table: Movies

Id	Title	Director	Year	Length_minutes
3	Monsters University	Dan Scanlon	2013	110
7	Monsters, Inc.	Pete Docter	2001	92
6	Ratatouille	Brad Bird	2007	115
2	The Incredibles	Brad Bird	2004	116
1	Toy Story	John Lasseter	1995	81

```
SELECT *FROM MOVIES ORDER BY TITLE  ASC  LIMIT 5 OFFSET 5;
```

RESET

Exercise 4 — Tasks

1. List all directors of Pixar movies (alphabetically), without duplicates ✓
2. List the last four Pixar movies released (ordered from most recent to least) ✓
3. List the **first** five Pixar movies sorted alphabetically ✓
4. List the **next** five Pixar movies sorted alphabetically ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-5

Table: North_american_cities

City	Country	Population	Latitude	Longitude
Toronto	Canada	2795060	43.653226	-79.383184
Montreal	Canada	1717767	45.501689	-73.567256

```
SELECT * FROM north_american_cities WHERE COUNTRY LIKE 'CANADA';
```

RESET

Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south
3. List all the cities west of Chicago, ordered from west to east
4. List the two largest cities in Mexico (by population)
5. List the third and fourth largest cities (by population) in the United States and their population

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: North_american_cities

City	Country	Population	Latitude	Longitude
Chicago	United States	2718782	41.878114	-87.629798
New York	United States	8405837	40.712784	-74.005941
Philadelphia	United States	1553165	39.952584	-75.165222
Los Angeles	United States	3884307	34.052234	-118.243685
Phoenix	United States	1513367	33.448377	-112.074037
Houston	United States	2195914	29.760427	-95.369803

```
SELECT* FROM north_american_cities where country like "%united states" order
    by latitude desc;
```

RESET

Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south ✓
3. List all the cities west of Chicago, ordered from west to east
4. List the two largest cities in Mexico (by population)
5. List the third and fourth largest cities (by population) in the United States and their population

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: North_american_cities

City	Country	Population	Latitude	Longitude
Los Angeles	United States	3884307	34.052234	-118.243685
Phoenix	United States	1513367	33.448377	-112.074037
Guadalajara	Mexico	1500800	20.659699	-103.349609
Mexico City	Mexico	8555500	19.432608	-99.133208
Ecatepec de Morelos	Mexico	1742000	19.601841	-99.050674
Houston	United States	2195914	29.760427	-95.369803

```
SELECT* FROM north_american_cities WHERE Longitude < -87.69
ORDER BY Longitude ASC;
```

RESET

Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south ✓
3. List all the cities west of Chicago, ordered from west to east ✓
4. List the two largest cities in Mexico (by population)
5. List the third and fourth largest cities (by population) in the United States and their population

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: North_american_cities

City	Country	Population	Latitude	Longitude
Mexico City	Mexico	8555500	19.432608	-99.133208
Ecatepec de Morelos	Mexico	1742000	19.601841	-99.050674

```
SELECT* FROM north_american_cities WHERE country LIKE "mexico"
ORDER BY population desc limit 2;
```

RESET

Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south ✓
3. List all the cities west of Chicago, ordered from west to east ✓
4. List the two largest cities in Mexico (by population) ✓
5. List the third and fourth largest cities (by population) in the United States and their population

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: North_american_cities

City	Country	Population	Latitude	Longitude
Chicago	United States	2718782	41.878114	-87.629798
Houston	United States	2195914	29.760427	-95.369803

```
SELECT* FROM north_american_cities WHERE country LIKE "united states"
ORDER BY population desc limit 2 OFFSET 2;
```

RESET

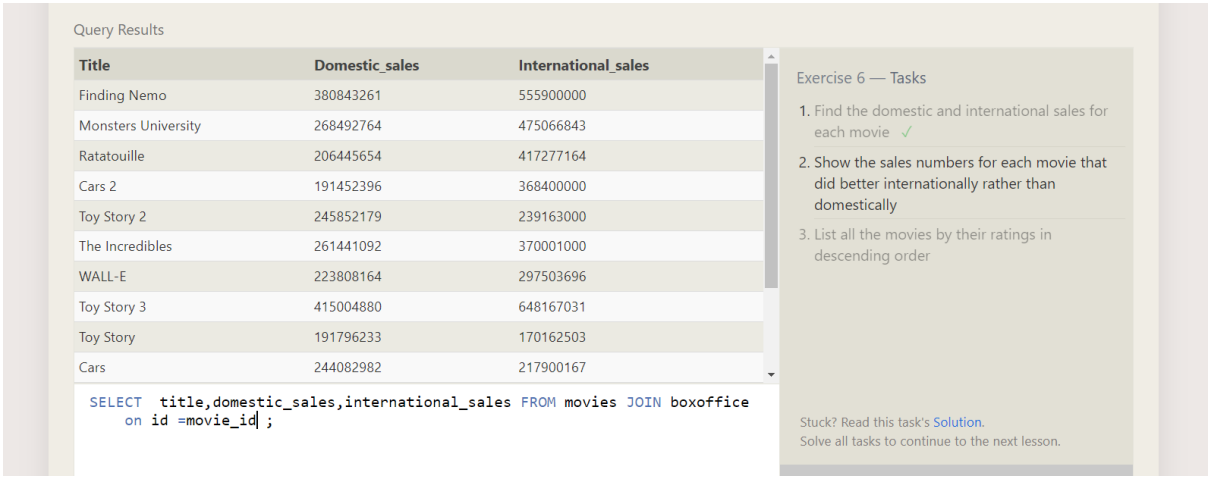
Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south ✓
3. List all the cities west of Chicago, ordered from west to east ✓
4. List the two largest cities in Mexico (by population) ✓
5. List the third and fourth largest cities (by population) in the United States and their population ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-6



Query Results

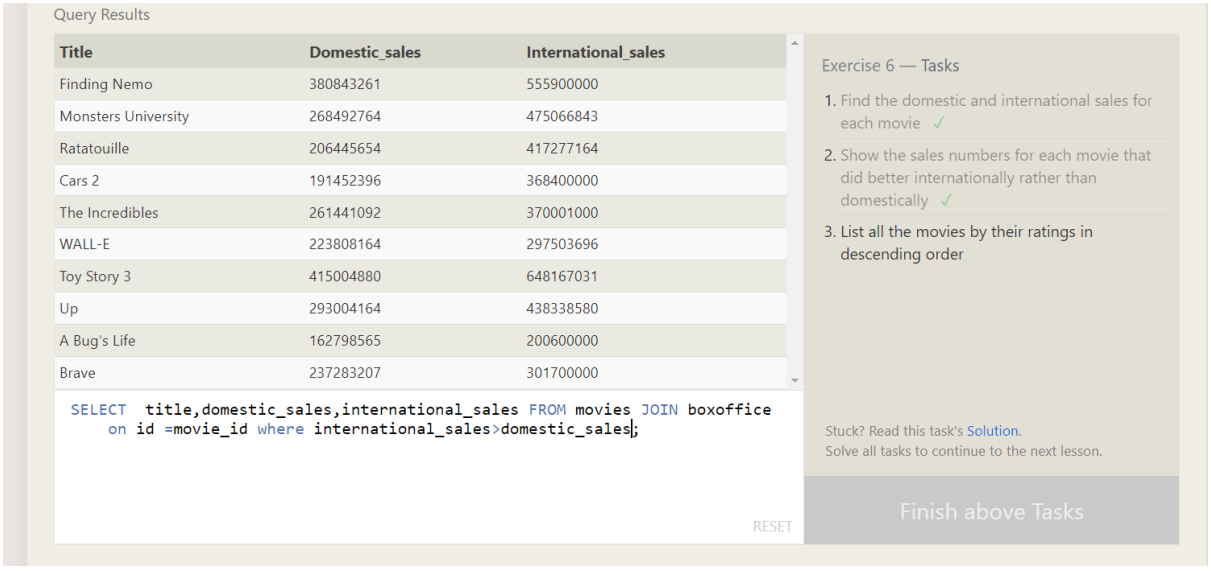
Title	Domestic_sales	International_sales
Finding Nemo	380843261	555900000
Monsters University	268492764	475066843
Ratatouille	206445654	417277164
Cars 2	191452396	368400000
Toy Story 2	245852179	239163000
The Incredibles	261441092	370001000
WALL-E	223808164	297503696
Toy Story 3	415004880	648167031
Toy Story	191796233	170162503
Cars	244082982	217900167

```
SELECT  title,domestic_sales,international_sales FROM movies JOIN boxoffice
    on id =movie_id ;
```

Exercise 6 — Tasks

1. Find the domestic and international sales for each movie ✓
2. Show the sales numbers for each movie that did better internationally rather than domestically
3. List all the movies by their ratings in descending order

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.



Query Results

Title	Domestic_sales	International_sales
Finding Nemo	380843261	555900000
Monsters University	268492764	475066843
Ratatouille	206445654	417277164
Cars 2	191452396	368400000
The Incredibles	261441092	370001000
WALL-E	223808164	297503696
Toy Story 3	415004880	648167031
Up	293004164	438338580
A Bug's Life	162798565	200600000
Brave	237283207	301700000

```
SELECT  title,domestic_sales,international_sales FROM movies JOIN boxoffice
    on id =movie_id where international_sales>domestic_sales;
```

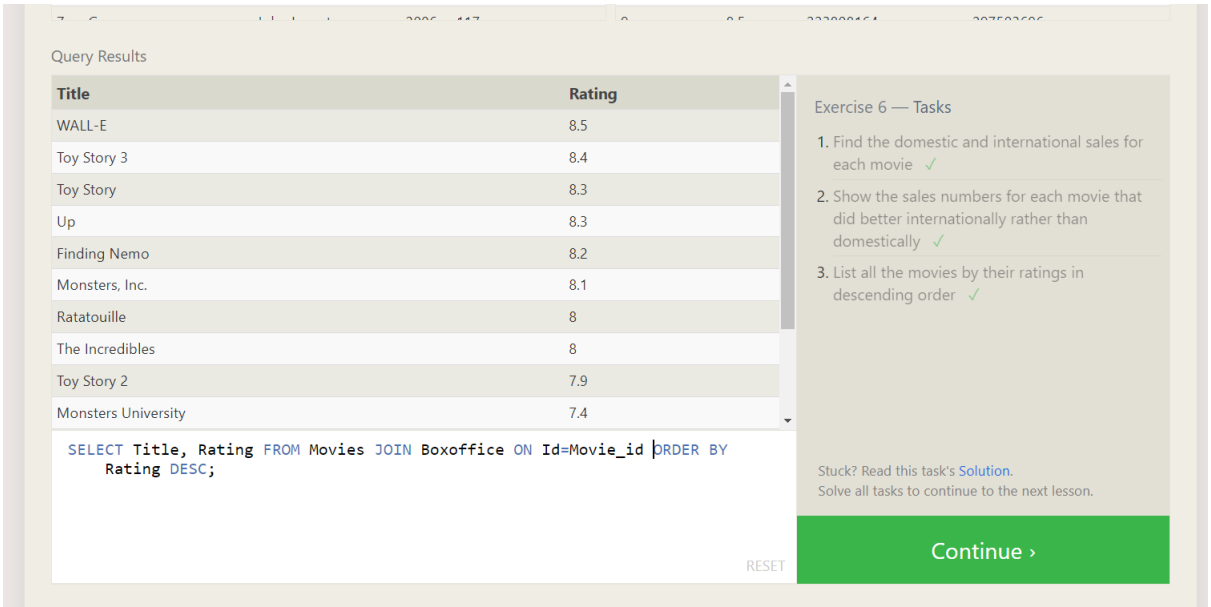
RESET

Exercise 6 — Tasks

1. Find the domestic and international sales for each movie ✓
2. Show the sales numbers for each movie that did better internationally rather than domestically ✓
3. List all the movies by their ratings in descending order

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks



Query Results

Title	Rating
WALL-E	8.5
Toy Story 3	8.4
Toy Story	8.3
Up	8.3
Finding Nemo	8.2
Monsters, Inc.	8.1
Ratatouille	8
The Incredibles	8
Toy Story 2	7.9
Monsters University	7.4

```
SELECT Title, Rating FROM Movies JOIN Boxoffice ON Id=Movie_id ORDER BY
    Rating DESC;
```

RESET

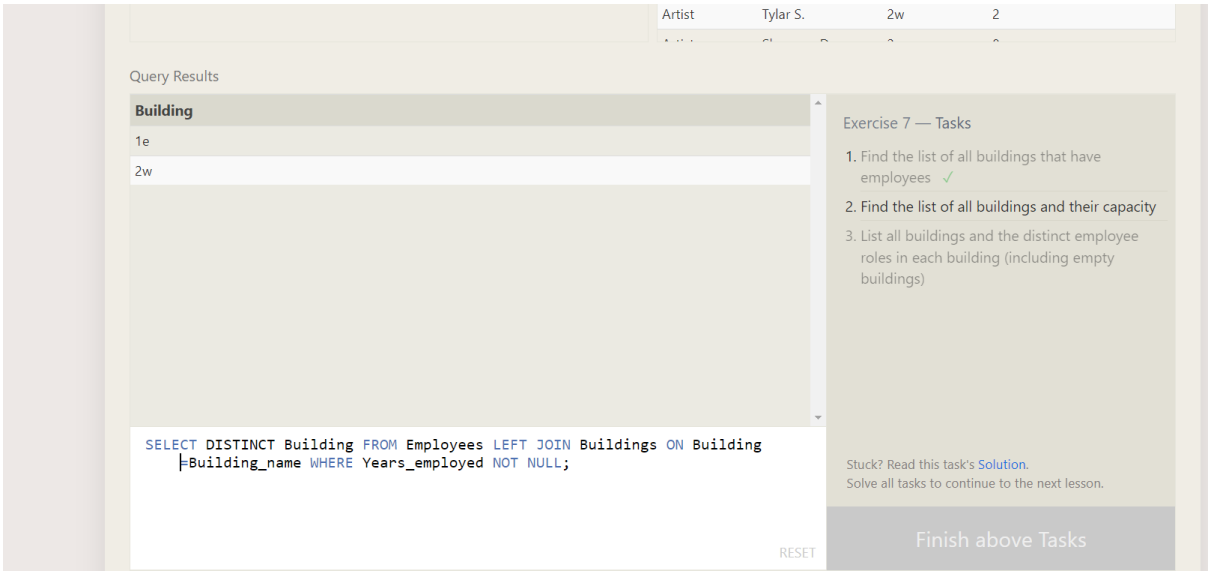
Exercise 6 — Tasks

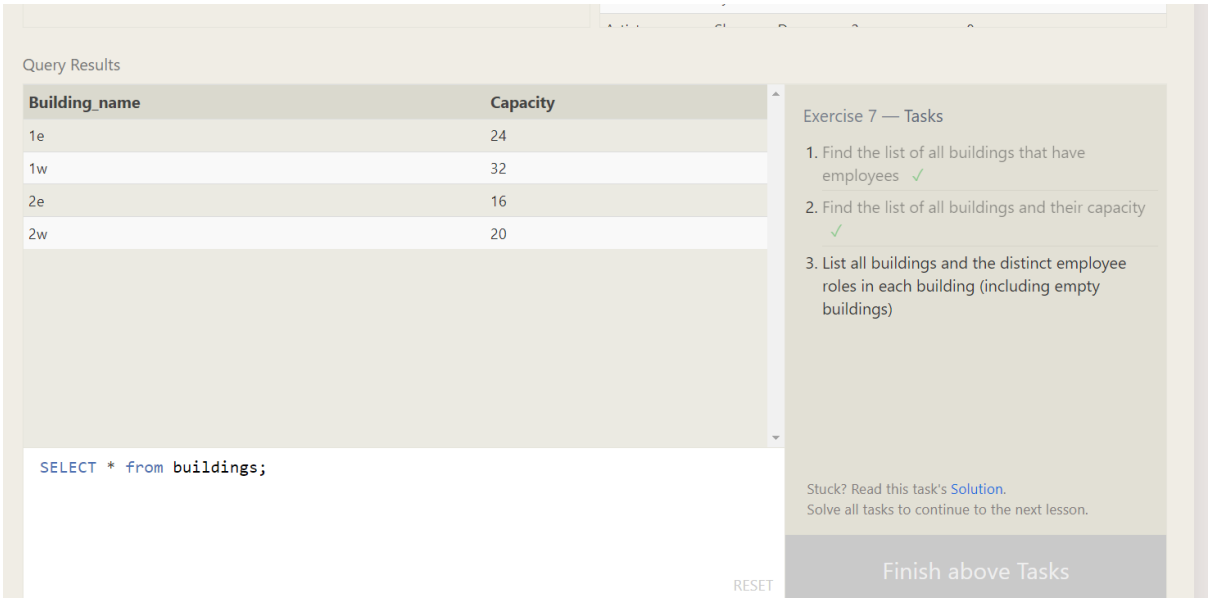
1. Find the domestic and international sales for each movie ✓
2. Show the sales numbers for each movie that did better internationally rather than domestically ✓
3. List all the movies by their ratings in descending order ✓

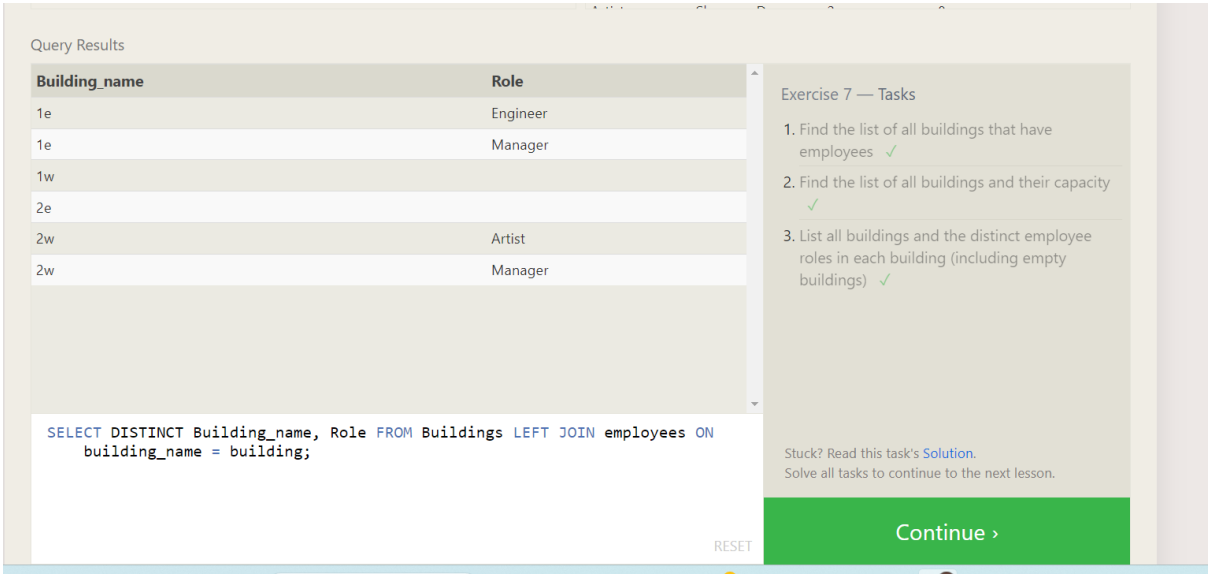
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

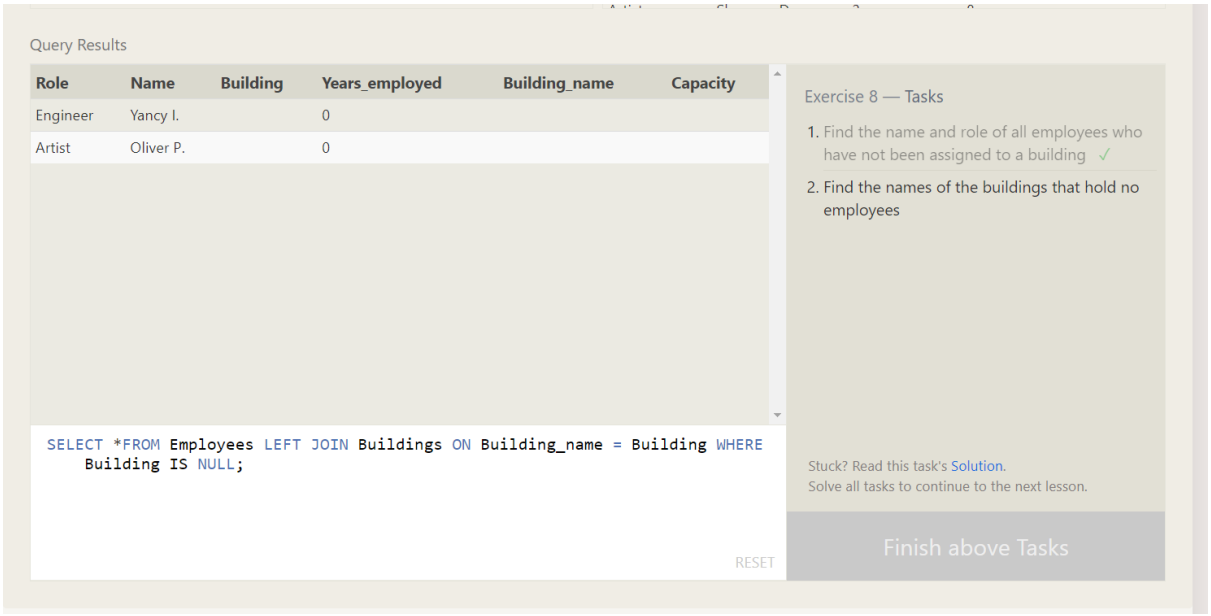
TASK-7


Artist Tylar S. 2w 2
Query Results
Building
1e
2w
Exercise 7 — Tasks
1. Find the list of all buildings that have employees ✓
2. Find the list of all buildings and their capacity
3. List all buildings and the distinct employee roles in each building (including empty buildings)
SELECT DISTINCT Building FROM Employees LEFT JOIN Buildings ON Building
=Building_name WHERE Years_employed NOT NULL;
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
RESET
Finish above Tasks


Query Results
Building_name
Capacity
1e
24
1w
32
2e
16
2w
20
Exercise 7 — Tasks
1. Find the list of all buildings that have employees ✓
2. Find the list of all buildings and their capacity ✓
3. List all buildings and the distinct employee roles in each building (including empty buildings)
SELECT * from buildings;
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
RESET
Finish above Tasks


Query Results
Building_name
Role
1e
Engineer
1e
Manager
1w
2e
2w
Artist
2w
Manager
SELECT DISTINCT Building_name, Role FROM Buildings LEFT JOIN employees ON
building_name = building;
RESET
Exercise 7 — Tasks
1. Find the list of all buildings that have employees ✓
2. Find the list of all buildings and their capacity ✓
3. List all buildings and the distinct employee roles in each building (including empty buildings) ✓
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
Continue ›

TASK-8


Query Results
Role
Name
Building
Years_employed
Building_name
Capacity
Engineer
Yancy I.
0
Artist
Oliver P.
0
SELECT *FROM Employees LEFT JOIN Buildings ON Building_name = Building WHERE
Building IS NULL;
RESET
Exercise 8 — Tasks
1. Find the name and role of all employees who have not been assigned to a building ✓
2. Find the names of the buildings that hold no employees
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
Finish above Tasks

Query Results

Building_name	Capacity	Role	Name	Building	Years_employed
1w	32				
2e	16				

```
SELECT *FROM Buildings LEFT JOIN Employees ON Building_name = Building WHERE
    Building IS NULL;
```

RESET

Exercise 8 — Tasks

1. Find the name and role of all employees who have not been assigned to a building ✓
2. Find the names of the buildings that hold no employees ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-9

Query Results

Title	Total_Sales_Millions
Toy Story	361.958736
A Bug's Life	363.398565
Toy Story 2	485.015179
Monsters, Inc.	562.816256
Finding Nemo	936.743261
The Incredibles	631.442092
Cars	461.983149
Ratatouille	623.722818
WALL-E	521.31186
Up	731.342744

```
SELECT Title, (Domestic_sales + International_sales)/1000000 AS
    Total_Sales_Millions FROM Movies LEFT JOIN Boxoffice ON Id=Movie_Id;
```

RESET

Exercise 9 — Tasks

1. List all movies and their combined sales in **millions** of dollars ✓
2. List all movies and their ratings **in percent**
3. List all movies that were released on even number years

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Query Results

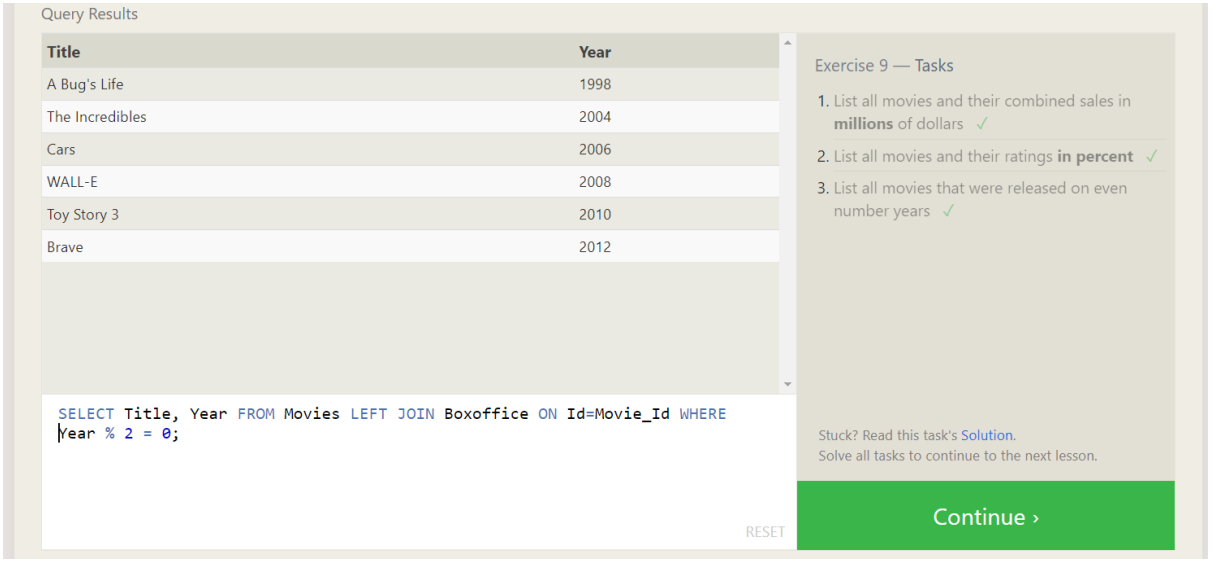
Title	PERCENT
Toy Story	83
A Bug's Life	72
Toy Story 2	79
Monsters, Inc.	81
Finding Nemo	82
The Incredibles	80
Cars	72
Ratatouille	80
WALL-E	85
Up	83

```
SELECT Title, RATING*10 AS PERCENT FROM Movies LEFT JOIN Boxoffice ON Id
    =Movie_Id;
```

Exercise 9 — Tasks

1. List all movies and their combined sales in **millions** of dollars ✓
2. List all movies and their ratings **in percent** ✓
3. List all movies that were released on even number years

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.


Query Results
Title
Year
A Bug's Life
1998
The Incredibles
2004
Cars
2006
WALL-E
2008
Toy Story 3
2010
Brave
2012
SELECT Title, Year FROM Movies LEFT JOIN Boxoffice ON Id=Movie_Id WHERE Year % 2 = 0;
RESET
Exercise 9 — Tasks
1. List all movies and their combined sales in millions of dollars ✓
2. List all movies and their ratings in percent ✓
3. List all movies that were released on even number years ✓
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
Continue ›

TASK-10


Table: Employees
MAX(Years_employed)
9
SELECT MAX(Years_employed) FROM Employees;
Exercise 10 — Tasks
1. Find the longest time that an employee has been at the studio ✓
2. For each role, find the average number of years employed by employees in that role
3. Find the total number of employee years worked in each building
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Table: Employees

Role	AVG(Years_Employed)
Artist	6
Engineer	3.4
Manager	6

```
SELECT Role, AVG(Years_Employed)  FROM Employees GROUP BY Role;
```

RESET

Exercise 10 — Tasks

1. Find the longest time that an employee has been at the studio ✓
2. For each role, find the average number of years employed by employees in that role ✓
3. Find the total number of employee years worked in each building

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: Employees

Building	SUM(Years_Employed)
1e	29
2w	36

```
SELECT Building, SUM(Years_Employed)  FROM Employees GROUP BY Building;
```

RESET

Exercise 10 — Tasks

1. Find the longest time that an employee has been at the studio ✓
2. For each role, find the average number of years employed by employees in that role ✓
3. Find the total number of employee years worked in each building ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-11

Table: Employees

Role	Number_of_Artists
Artist	5

```
SELECT Role, COUNT(*) AS Number_of_Artists FROM Employees WHERE Role =
    "Artist";
```

RESET

Exercise 11 — Tasks

1. Find the number of Artists in the studio (without a **HAVING** clause) ✓
2. Find the number of Employees of each role in the studio
3. Find the total number of years employed by all Engineers

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: Employees

Role	COUNT(*)
Artist	5
Engineer	5
Manager	3

```
SELECT Role, COUNT(*) FROM Employees GROUP BY Role;
```

RESET

Exercise 11 — Tasks

1. Find the number of Artists in the studio (without a **HAVING** clause) ✓
2. Find the number of Employees of each role in the studio ✓
3. Find the total number of years employed by all Engineers

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Role	SUM(Years_Employed)
Engineer	17

```
SELECT Role, SUM(Years_Employed) FROM Employees GROUP BY Role HAVING Role =
    "Engineer";
```

RESET

Exercise 11 — Tasks

1. Find the number of Artists in the studio (without a **HAVING** clause) ✓
2. Find the number of Employees of each role in the studio ✓
3. Find the total number of years employed by all Engineers ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-12

Query Results

Id	Title	Director	Year	Length_minutes	COUNT(Title)
9	WALL-E	Andrew Stanton	2008	104	2
8	Ratatouille	Brad Bird	2007	115	2
13	Brave	Brenda Chapman	2012	102	1
14	Monsters University	Dan Scanlon	2013	110	1
12	Cars 2	John Lasseter	2011	120	5
11	Toy Story 3	Lee Unkrich	2010	103	1
10	Up	Pete Docter	2009	101	2

```
SELECT *, COUNT(Title) FROM Movies GROUP BY Director;
```

RESET

Exercise 12 — Tasks

1. Find the number of movies each director has directed ✓
2. Find the total domestic and international sales that can be attributed to each director

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Query Results

Director	Total_Sales
Andrew Stanton	1458055121
Brad Bird	1255164910
Brenda Chapman	538983207
Dan Scanlon	743559607
John Lasseter	2232208025
Lee Unkrich	1063171911
Pete Docter	1294159000

```
SELECT Director, sum(Domestic_sales + International_Sales) as Total_Sales
FROM Movies LEFT JOIN Boxoffice ON Id = Movie_ID GROUP BY Director;
```

RESET

Exercise 12 — Tasks

1. Find the number of movies each director has directed ✓
2. Find the total domestic and international sales that can be attributed to each director ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-13

Query Results

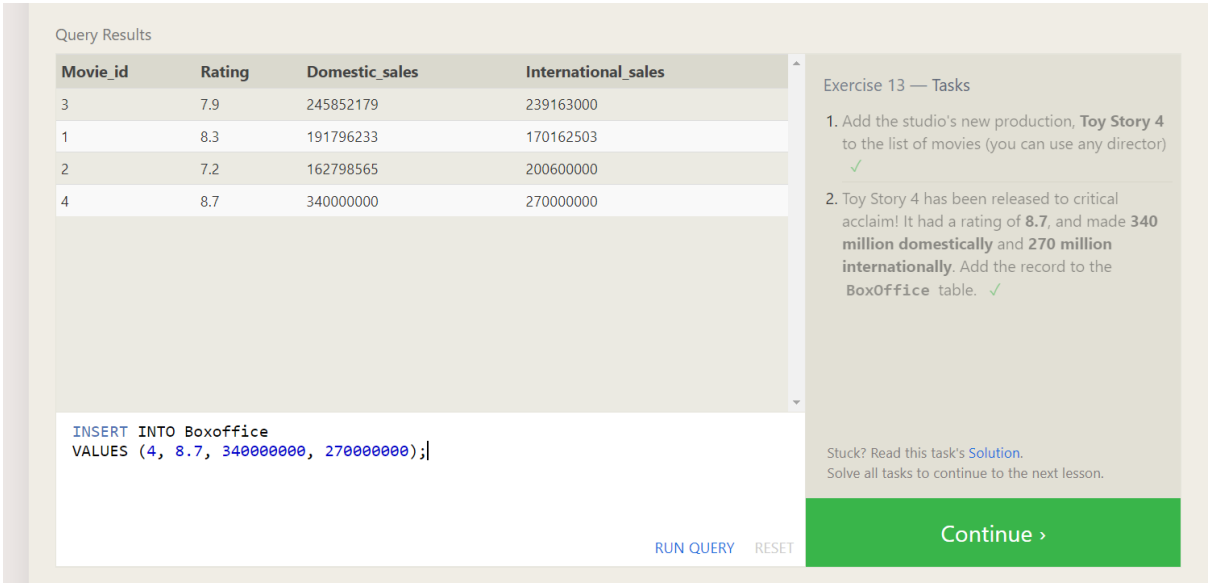
Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
4	Toy Story 4	John Lasseter	2017	123

```
INSERT INTO Movies
VALUES (4, "Toy Story 4", "John Lasseter", 2017, 123);
```

Exercise 13 — Tasks

1. Add the studio's new production, **Toy Story 4** to the list of movies (you can use any director) ✓
2. Toy Story 4 has been released to critical acclaim! It had a rating of **8.7**, and made **340 million domestically** and **270 million internationally**. Add the record to the `BoxOffice` table.

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.



Query Results

Movie_id	Rating	Domestic_sales	International_sales
3	7.9	245852179	239163000
1	8.3	191796233	170162503
2	7.2	162798565	200600000
4	8.7	340000000	270000000

```
INSERT INTO Boxoffice
VALUES (4, 8.7, 340000000, 270000000);
```

RUN QUERY RESET

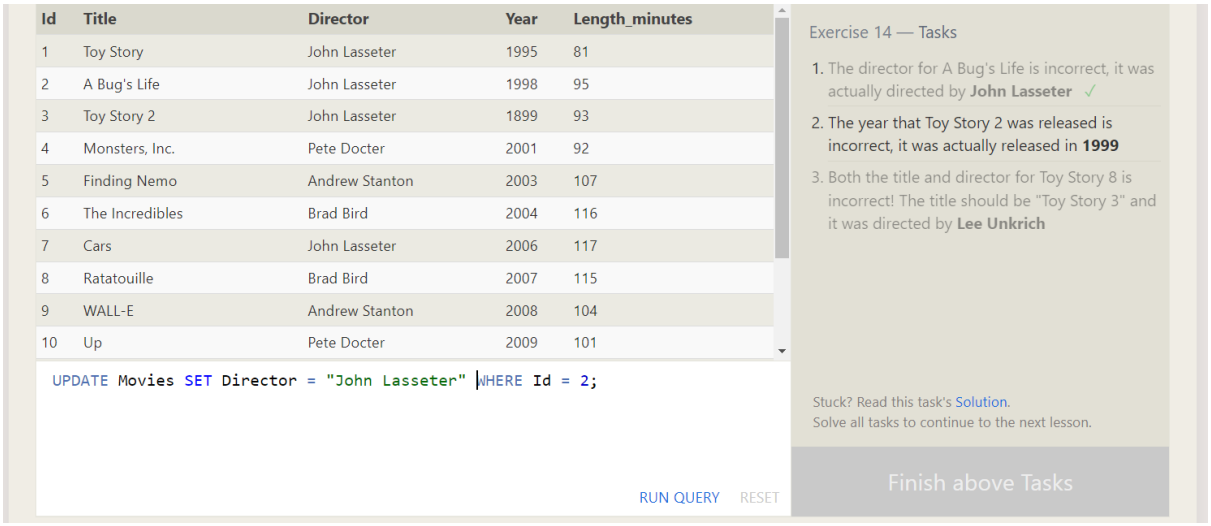
Exercise 13 — Tasks

1. Add the studio's new production, **Toy Story 4** to the list of movies (you can use any director) ✓
2. Toy Story 4 has been released to critical acclaim! It had a rating of **8.7**, and made **340 million domestically** and **270 million internationally**. Add the record to the `BoxOffice` table. ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-14



Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1899	93
4	Monsters, Inc.	Pete Docter	2001	92
5	Finding Nemo	Andrew Stanton	2003	107
6	The Incredibles	Brad Bird	2004	116
7	Cars	John Lasseter	2006	117
8	Ratatouille	Brad Bird	2007	115
9	WALL-E	Andrew Stanton	2008	104
10	Up	Pete Docter	2009	101

```
UPDATE Movies SET Director = "John Lasseter" WHERE Id = 2;
```

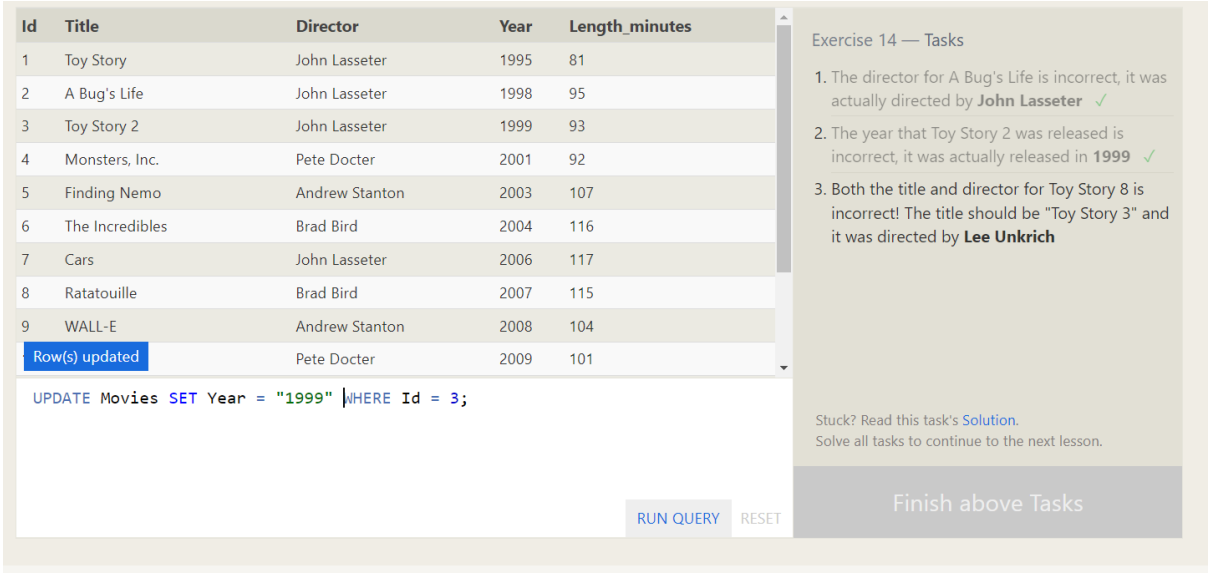
RUN QUERY RESET

Exercise 14 — Tasks

1. The director for A Bug's Life is incorrect, it was actually directed by **John Lasseter** ✓
2. The year that Toy Story 2 was released is incorrect, it was actually released in **1999**
3. Both the title and director for Toy Story 8 is incorrect! The title should be "Toy Story 3" and it was directed by **Lee Unkrich**

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks



Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
4	Monsters, Inc.	Pete Docter	2001	92
5	Finding Nemo	Andrew Stanton	2003	107
6	The Incredibles	Brad Bird	2004	116
7	Cars	John Lasseter	2006	117
8	Ratatouille	Brad Bird	2007	115
9	WALL-E	Andrew Stanton	2008	104
Row(s) updated		Pete Docter	2009	101

```
UPDATE Movies SET Year = "1999" WHERE Id = 3;
```

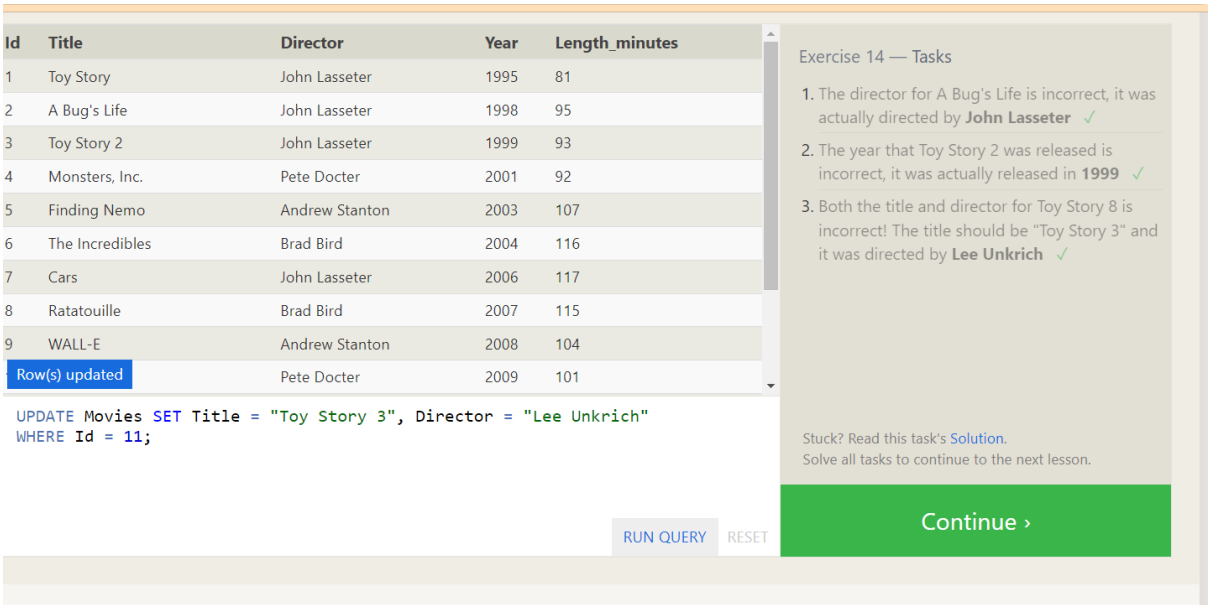
RUN QUERY RESET

Exercise 14 — Tasks

1. The director for A Bug's Life is incorrect, it was actually directed by **John Lasseter** ✓
2. The year that Toy Story 2 was released is incorrect, it was actually released in **1999** ✓
3. Both the title and director for Toy Story 8 is incorrect! The title should be "Toy Story 3" and it was directed by **Lee Unkrich**

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks



Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
4	Monsters, Inc.	Pete Docter	2001	92
5	Finding Nemo	Andrew Stanton	2003	107
6	The Incredibles	Brad Bird	2004	116
7	Cars	John Lasseter	2006	117
8	Ratatouille	Brad Bird	2007	115
9	WALL-E	Andrew Stanton	2008	104
Row(s) updated		Pete Docter	2009	101

```
UPDATE Movies SET Title = "Toy Story 3", Director = "Lee Unkrich"
WHERE Id = 11;
```

RUN QUERY RESET

Exercise 14 — Tasks

1. The director for A Bug's Life is incorrect, it was actually directed by **John Lasseter** ✓
2. The year that Toy Story 2 was released is incorrect, it was actually released in **1999** ✓
3. Both the title and director for Toy Story 8 is incorrect! The title should be "Toy Story 3" and it was directed by **Lee Unkrich** ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-15

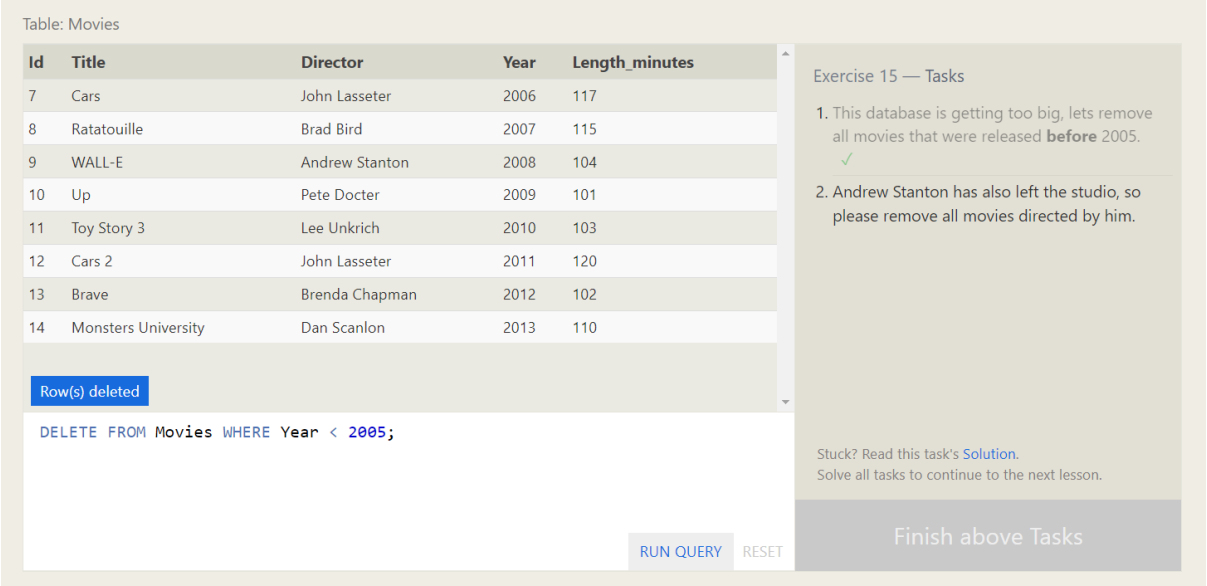


Table: Movies

Id	Title	Director	Year	Length_minutes
7	Cars	John Lasseter	2006	117
8	Ratatouille	Brad Bird	2007	115
9	WALL-E	Andrew Stanton	2008	104
10	Up	Pete Docter	2009	101
11	Toy Story 3	Lee Unkrich	2010	103
12	Cars 2	John Lasseter	2011	120
13	Brave	Brenda Chapman	2012	102
14	Monsters University	Dan Scanlon	2013	110

Row(s) deleted

```
DELETE FROM Movies WHERE Year < 2005;
```

RUN QUERY RESET

Exercise 15 — Tasks

1. This database is getting too big, lets remove all movies that were released **before** 2005. ✓
2. Andrew Stanton has also left the studio, so please remove all movies directed by him.

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

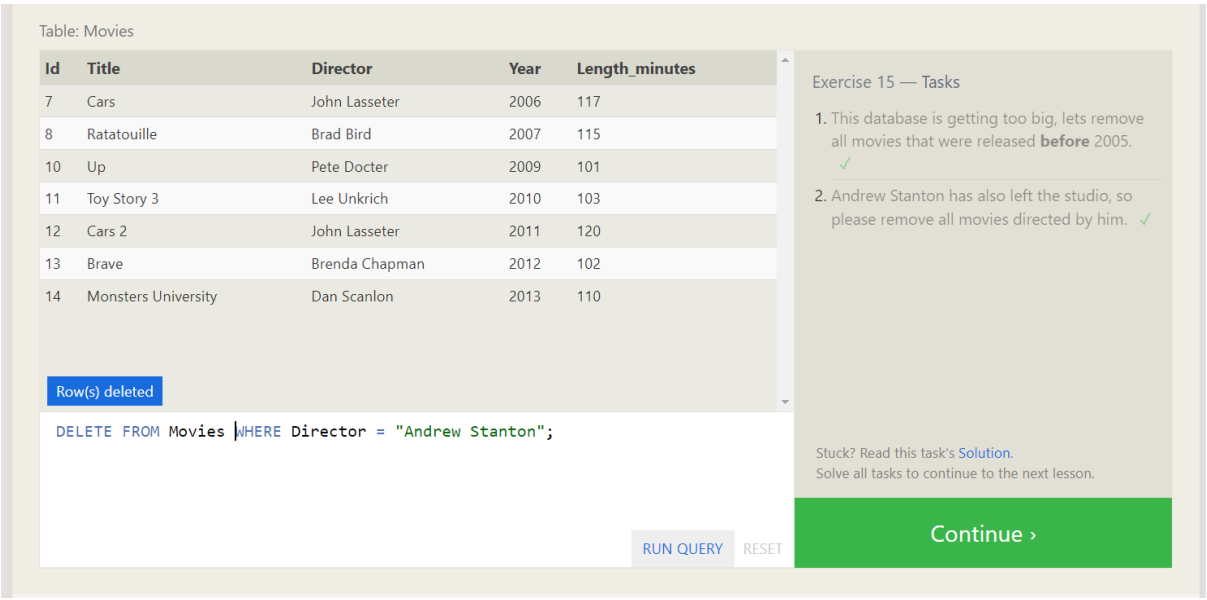


Table: Movies

Id	Title	Director	Year	Length_minutes
7	Cars	John Lasseter	2006	117
8	Ratatouille	Brad Bird	2007	115
10	Up	Pete Docter	2009	101
11	Toy Story 3	Lee Unkrich	2010	103
12	Cars 2	John Lasseter	2011	120
13	Brave	Brenda Chapman	2012	102
14	Monsters University	Dan Scanlon	2013	110

Row(s) deleted

```
DELETE FROM Movies WHERE Director = "Andrew Stanton";
```

RUN QUERY RESET

Exercise 15 — Tasks

1. This database is getting too big, lets remove all movies that were released **before** 2005. ✓
2. Andrew Stanton has also left the studio, so please remove all movies directed by him. ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-16

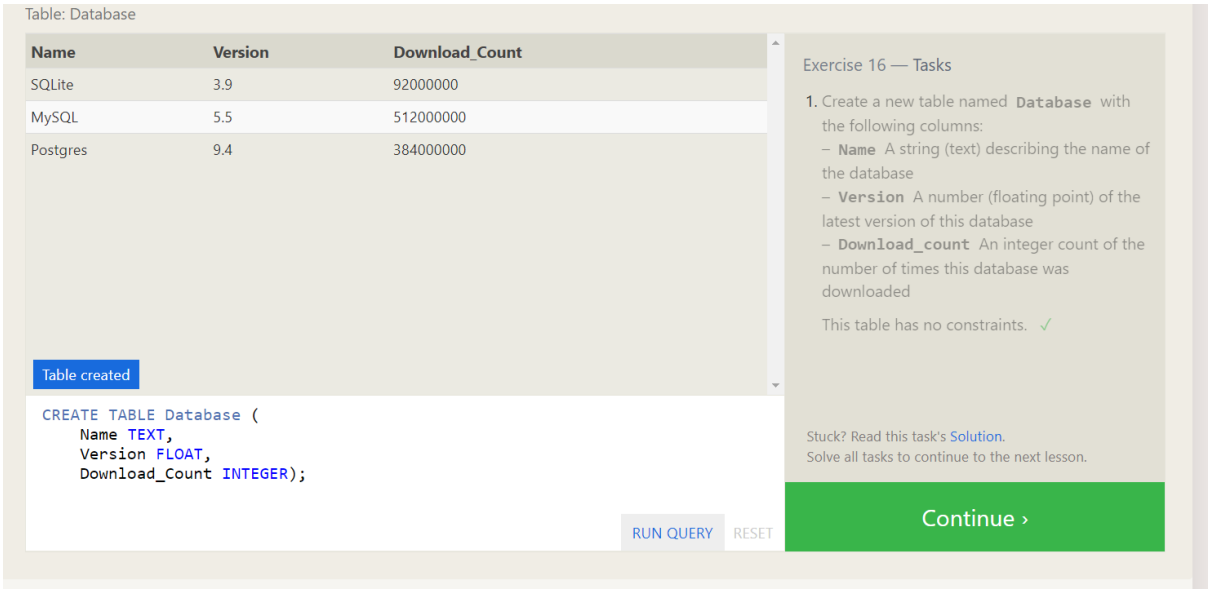


Table: Database

Name	Version	Download_Count
SQLite	3.9	92000000
MySQL	5.5	512000000
Postgres	9.4	384000000

Table created

```
CREATE TABLE Database (
    Name TEXT,
    Version FLOAT,
    Download_Count INTEGER);
```

RUN QUERY RESET

Exercise 16 — Tasks

1. Create a new table named `Database` with the following columns:
   – `Name` A string (text) describing the name of the database
   – `Version` A number (floating point) of the latest version of this database
   – `Download_count` An integer count of the number of times this database was downloaded

   This table has no constraints. ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

TASK-17

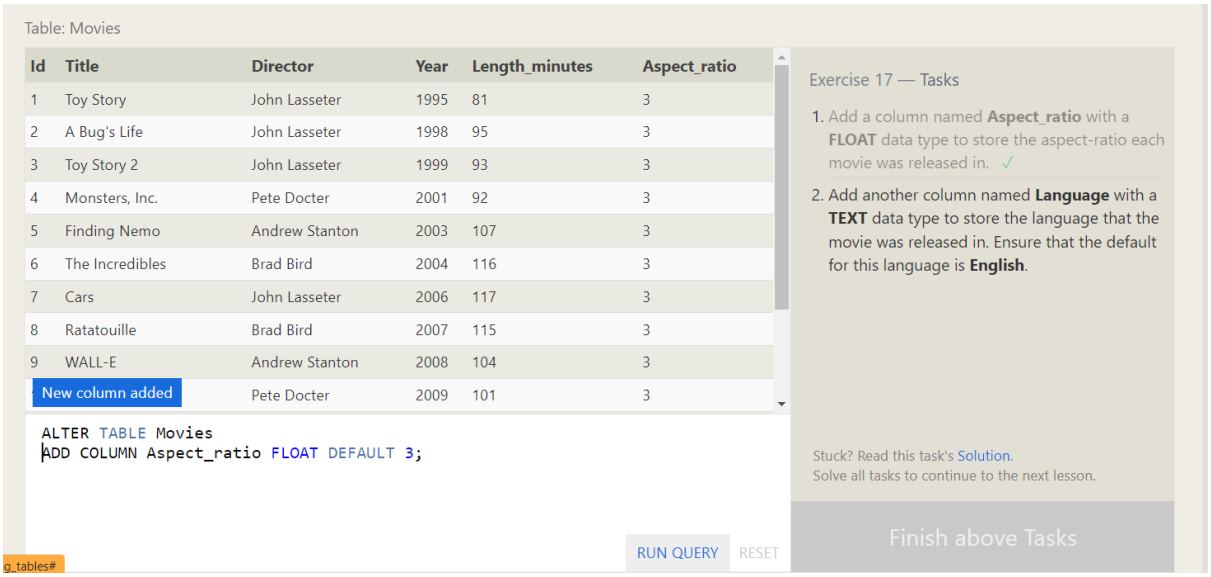


Table: Movies

Id	Title	Director	Year	Length_minutes	Aspect_ratio
1	Toy Story	John Lasseter	1995	81	3
2	A Bug's Life	John Lasseter	1998	95	3
3	Toy Story 2	John Lasseter	1999	93	3
4	Monsters, Inc.	Pete Docter	2001	92	3
5	Finding Nemo	Andrew Stanton	2003	107	3
6	The Incredibles	Brad Bird	2004	116	3
7	Cars	John Lasseter	2006	117	3
8	Ratatouille	Brad Bird	2007	115	3
9	WALL-E	Andrew Stanton	2008	104	3
		Pete Docter	2009	101	3

New column added

```
ALTER TABLE Movies
ADD COLUMN Aspect_ratio FLOAT DEFAULT 3;
```

RUN QUERY RESET

g_tables#

Exercise 17 — Tasks

1. Add a column named **Aspect_ratio** with a **FLOAT** data type to store the aspect-ratio each movie was released in. ✓
2. Add another column named **Language** with a **TEXT** data type to store the language that the movie was released in. Ensure that the default for this language is **English**.

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

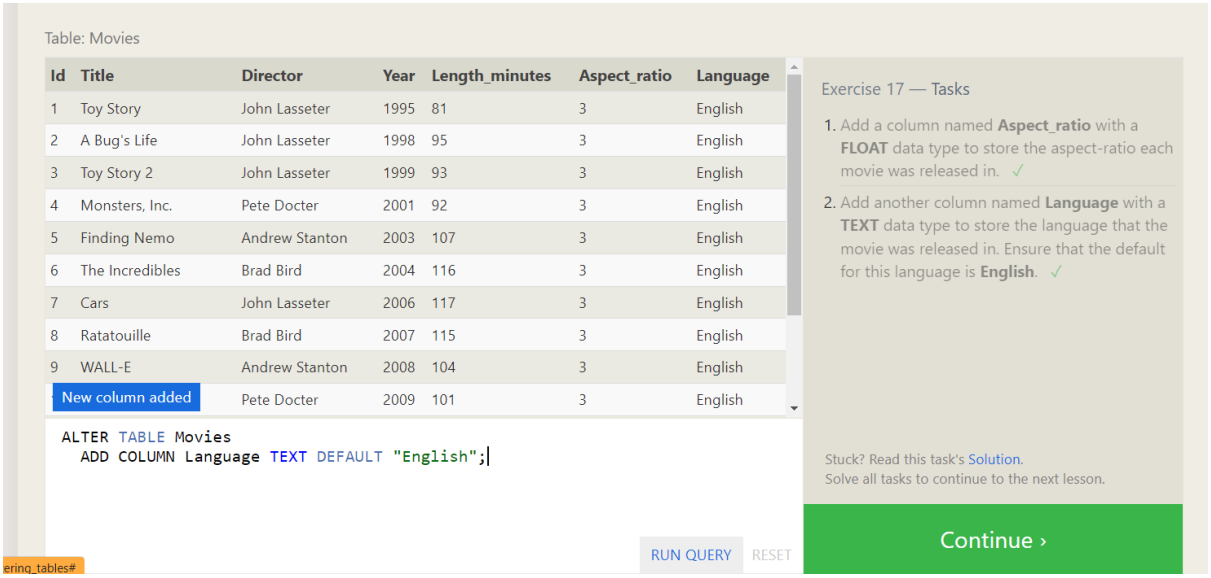
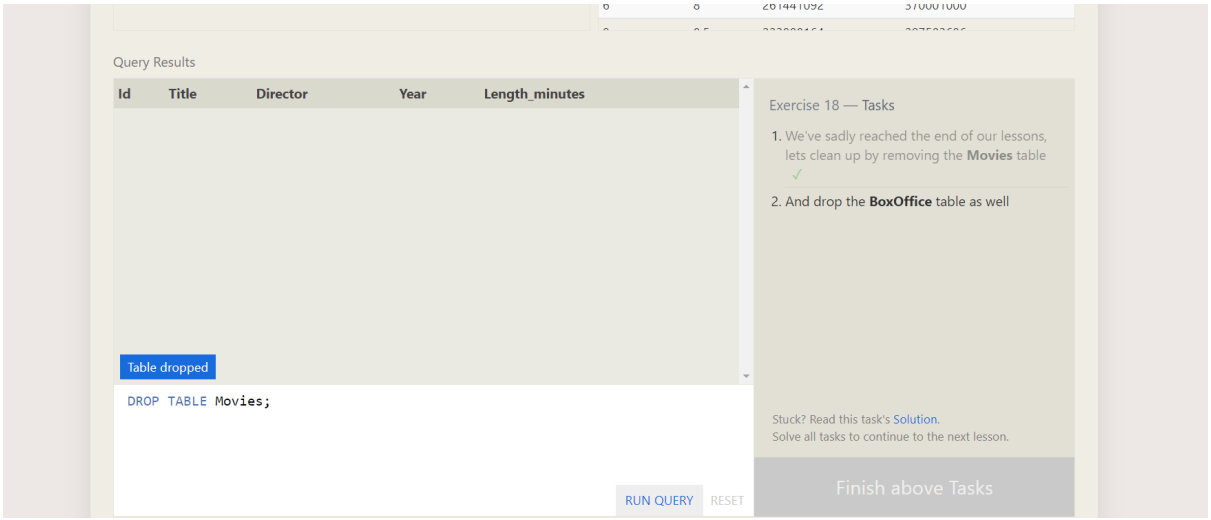
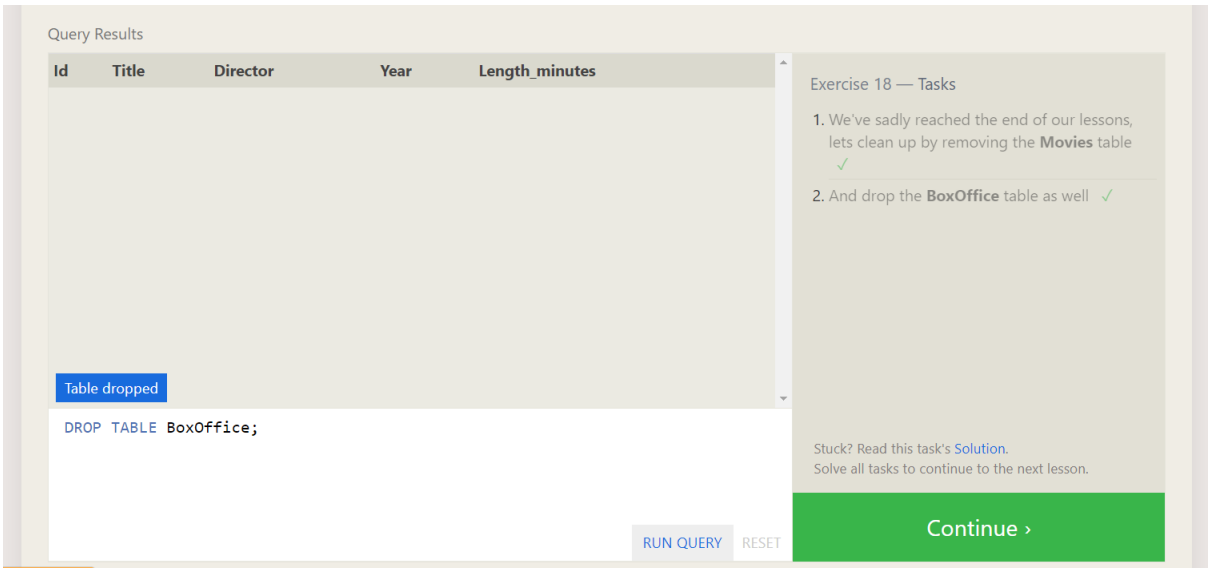


Table: Movies
Id Title Director Year Length_minutes Aspect_ratio Language
1 Toy Story John Lasseter 1995 81 3 English
2 A Bug's Life John Lasseter 1998 95 3 English
3 Toy Story 2 John Lasseter 1999 93 3 English
4 Monsters, Inc. Pete Docter 2001 92 3 English
5 Finding Nemo Andrew Stanton 2003 107 3 English
6 The Incredibles Brad Bird 2004 116 3 English
7 Cars John Lasseter 2006 117 3 English
8 Ratatouille Brad Bird 2007 115 3 English
9 WALL-E Andrew Stanton 2008 104 3 English
New column added
Pete Docter 2009 101 3 English
ALTER TABLE Movies
ADD COLUMN Language TEXT DEFAULT "English";
RUN QUERY
RESET
Exercise 17 — Tasks
1. Add a column named Aspect_ratio with a FLOAT data type to store the aspect-ratio each movie was released in.
2. Add another column named Language with a TEXT data type to store the language that the movie was released in. Ensure that the default for this language is English.
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
Continue ›

TASK-18


Query Results
Id Title Director Year Length_minutes
Table dropped
DROP TABLE Movies;
RUN QUERY
RESET
Exercise 18 — Tasks
1. We've sadly reached the end of our lessons, lets clean up by removing the Movies table
2. And drop the BoxOffice table as well
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
Finish above Tasks


Query Results
Id Title Director Year Length_minutes
Table dropped
DROP TABLE BoxOffice;
RUN QUERY
RESET
Exercise 18 — Tasks
1. We've sadly reached the end of our lessons, lets clean up by removing the Movies table
2. And drop the BoxOffice table as well
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
Continue ›