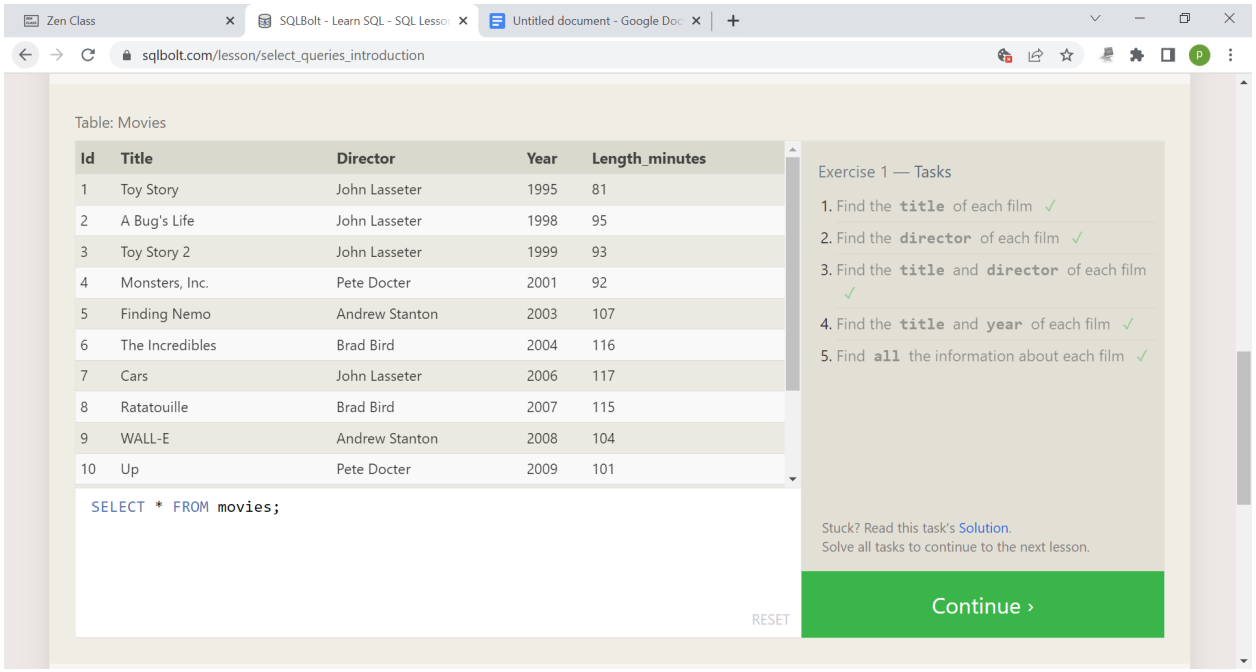
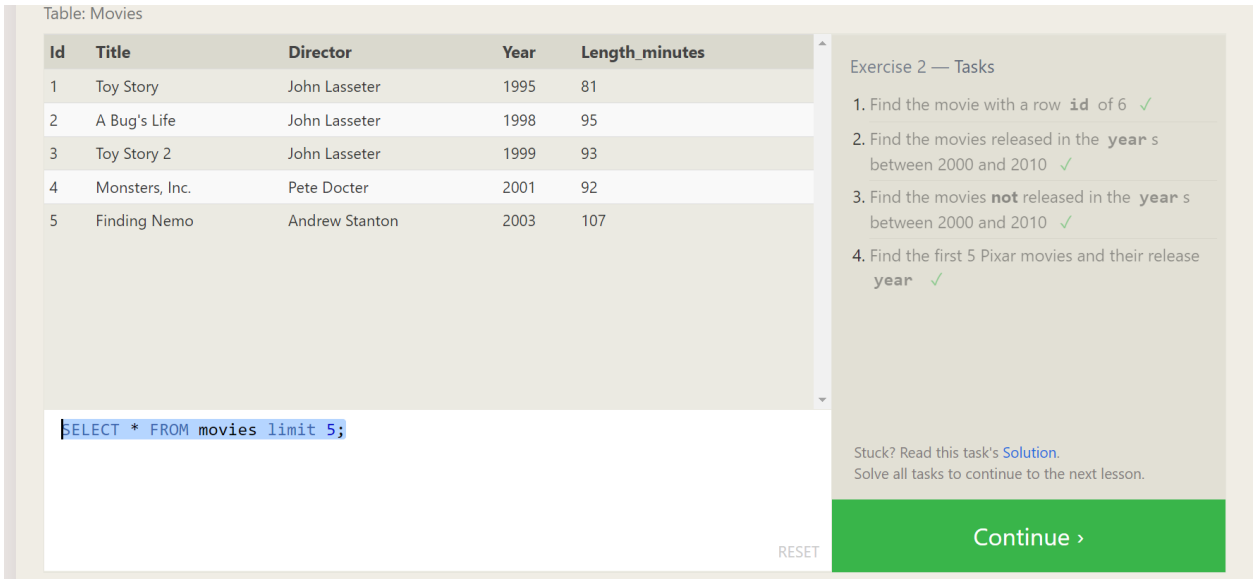
Lesson 1



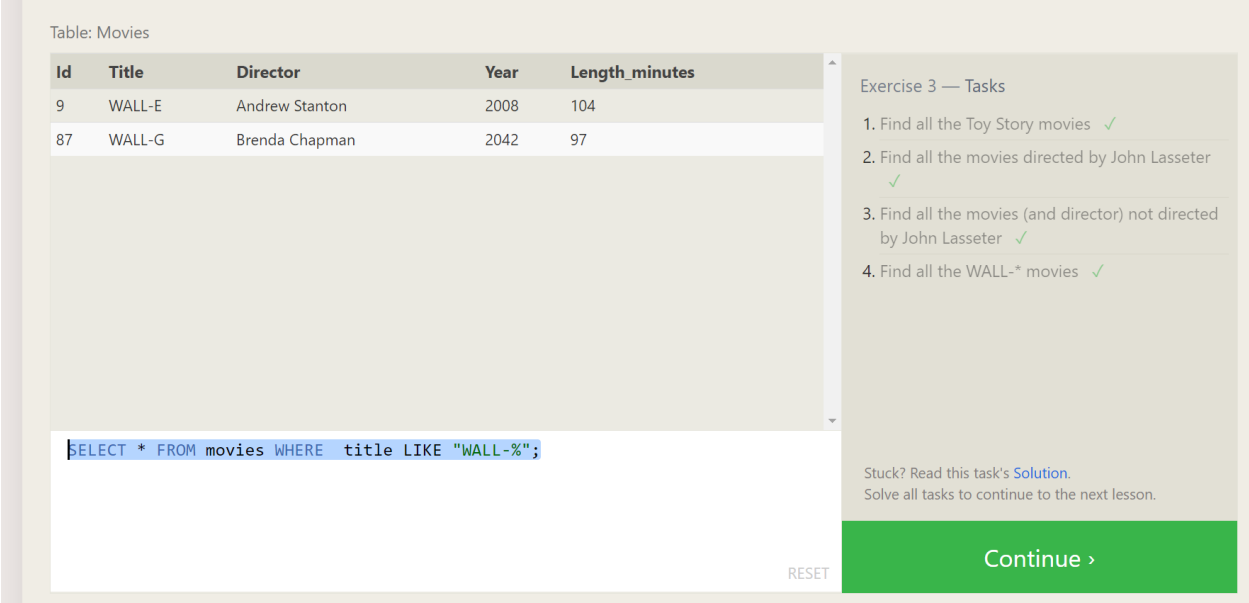
1. SELECT title FROM movies;
2. SELECT director FROM movies;
3. SELECT title,director FROM movies;
4. SELECT title,year FROM movies;
5. SELECT * FROM movies;

Lesson 2



1. SELECT * FROM movies where id=6;
2. SELECT * FROM movies where year between 2000 and 2010;
3. SELECT * FROM movies where not year between 2000 and 2010;
4. SELECT * FROM movies limit 5;

Lesson 3



1. SELECT title, director FROM movies WHERE title LIKE "Toy Story%";
2. SELECT * FROM movies WHERE director LIKE "John Lasseter";
3. SELECT * FROM movies WHERE NOT director LIKE "John Lasseter";
4. SELECT * FROM movies WHERE title LIKE "WALL-%";

Lesson 4

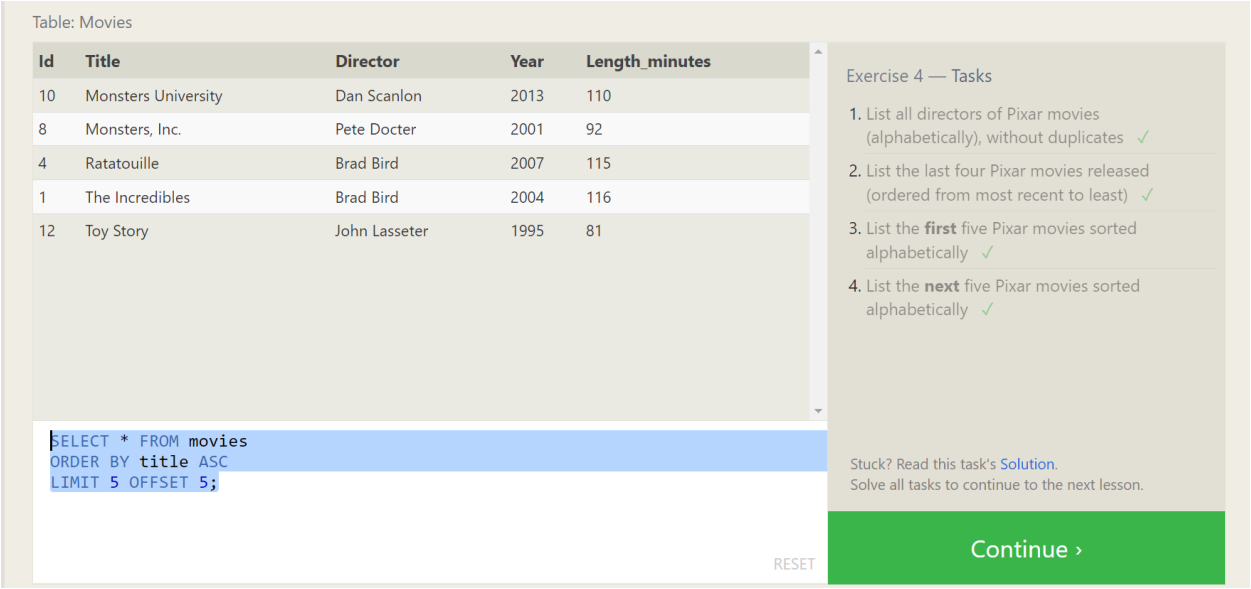


Table: Movies

Id	Title	Director	Year	Length_minutes
10	Monsters University	Dan Scanlon	2013	110
8	Monsters, Inc.	Pete Docter	2001	92
4	Ratatouille	Brad Bird	2007	115
1	The Incredibles	Brad Bird	2004	116
12	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 ›

1. SELECT DISTINCT director FROM movies ORDER BY director ASC;
2. SELECT * FROM movies ORDER BY year DESC LIMIT 4;
3. SELECT * FROM movies ORDER BY title ASC LIMIT 5;
4. SELECT * FROM moviesORDER BY title ASC LIMIT 5 OFFSET 5;

Review 1

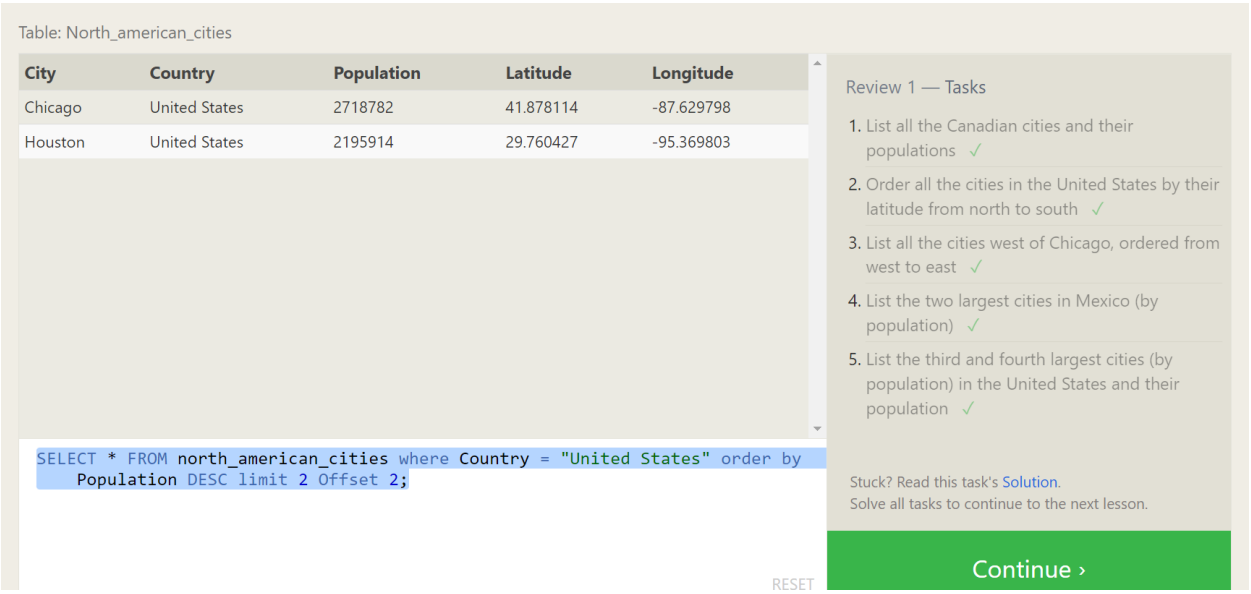


Table: North_american_cities

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 = "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 ✓

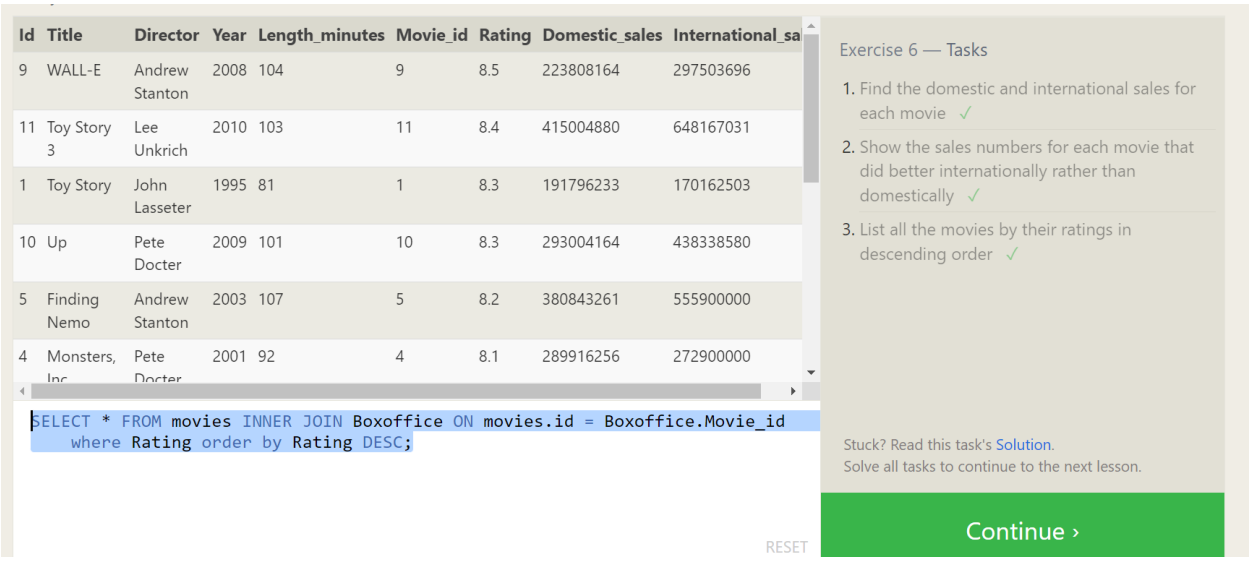
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

1. SELECT City,Population FROM north_american_cities where Country = "Canada";
2. SELECT * FROM north_american_cities where Country = "United States" ORDER BY Latitude DESC;

3. SELECT * FROM north_american_cities where Longitude < "-87.629798" order by Longitude ASC;
4. SELECT * FROM north_american_cities where Country = "Mexico" order by Population DESC limit 2;
5. SELECT * FROM north_american_cities where Country = "United States" order by Population DESC limit 2 Offset 2;

Lesson 6



Id	Title	Director	Year	Length_minutes	Movie_id	Rating	Domestic_sales	International_sa
9	WALL-E	Andrew Stanton	2008	104	9	8.5	223808164	297503696
11	Toy Story 3	Lee Unkrich	2010	103	11	8.4	415004880	648167031
1	Toy Story	John Lasseter	1995	81	1	8.3	191796233	170162503
10	Up	Pete Docter	2009	101	10	8.3	293004164	438338580
5	Finding Nemo	Andrew Stanton	2003	107	5	8.2	380843261	555900000
4	Monsters, Inc	Pete Docter	2001	92	4	8.1	289916256	272900000

```
SELECT * FROM movies INNER JOIN Boxoffice ON movies.id = Boxoffice.Movie_id
    where Rating order by Rating DESC;
```

RESET

Exercise 6 — Tasks

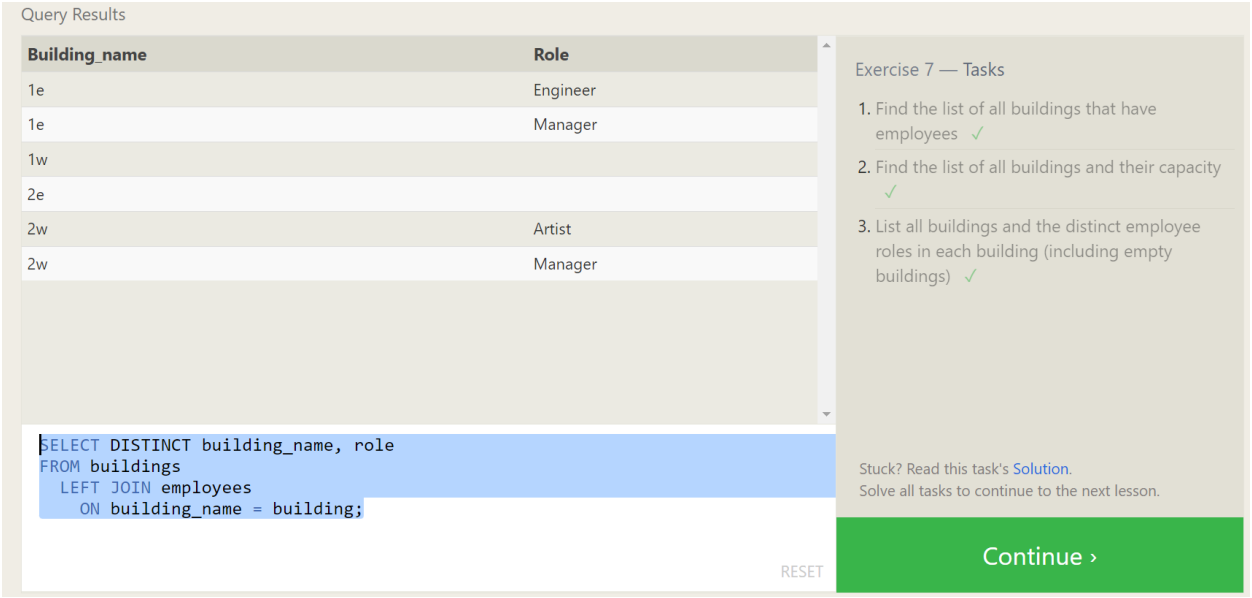
1. Find the domestic and international sales for each movie ✓
2. Show the sales numbers for each movie that did better internationally rather than domestically ✓
3. List all the movies by their ratings in descending order ✓

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

Continue ›

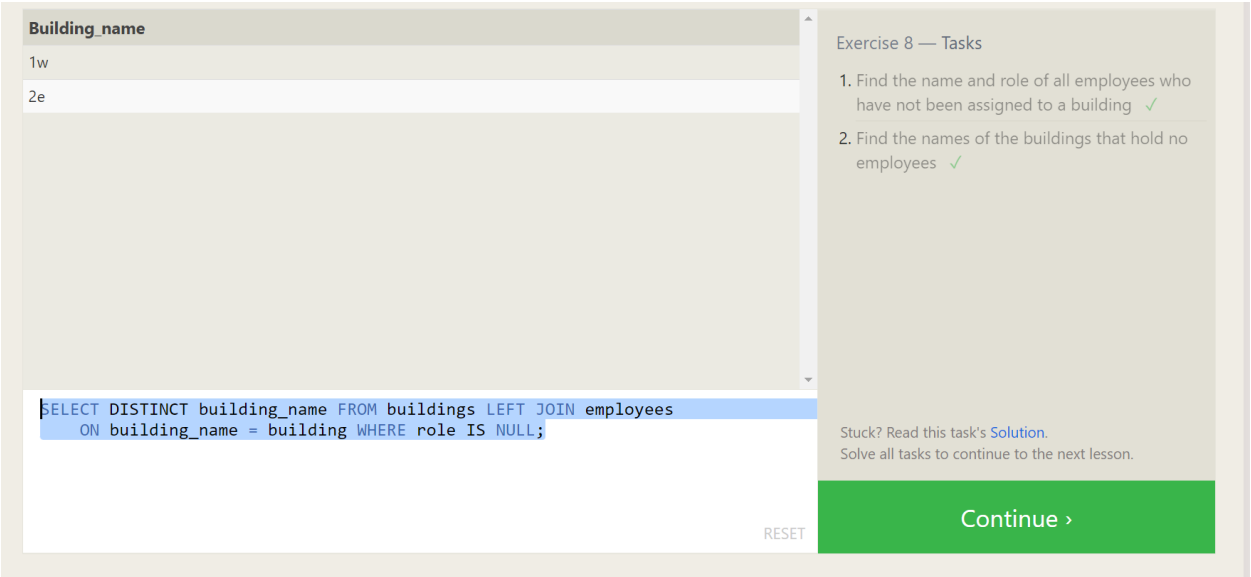
1. SELECT * FROM movies INNER JOIN Boxoffice ON movies.id = Boxoffice.Movie_id order by Id;
2. SELECT * FROM movies INNER JOIN Boxoffice ON movies.id = Boxoffice.Movie_id where International_sales > Domestic_sales;
3. SELECT * FROM movies INNER JOIN Boxoffice ON movies.id = Boxoffice.Movie_id where Rating order by Rating DESC;

Lesson 7



1. SELECT DISTINCT building FROM employees;
2. SELECT * FROM Buildings;
3. SELECT DISTINCT building_name, role FROM buildings LEFT JOIN employees ON building_name = building;

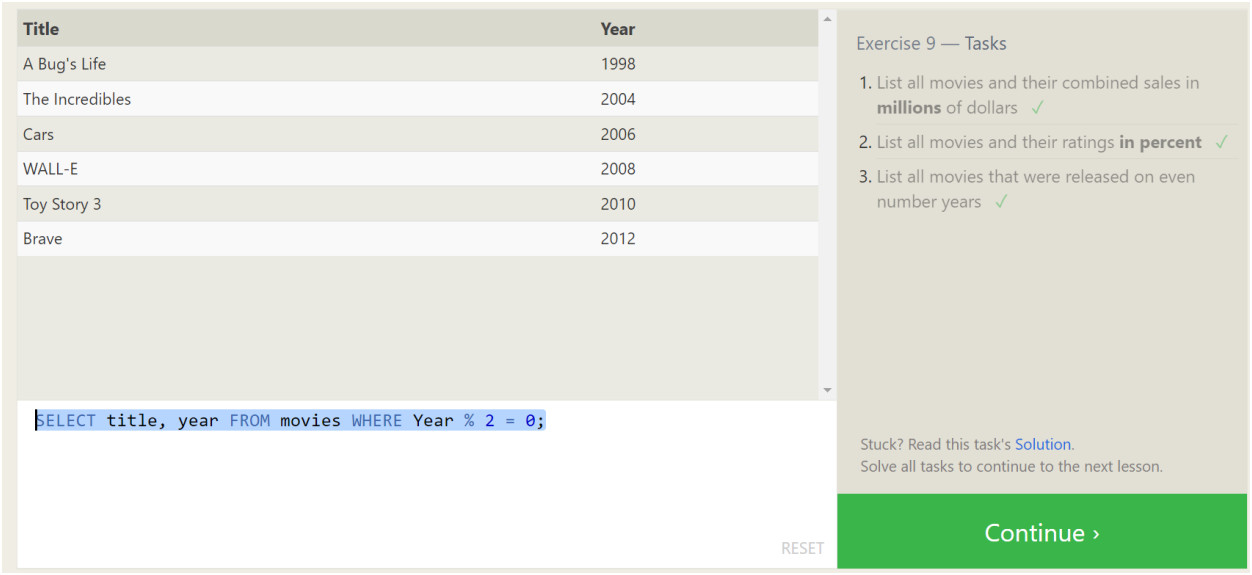
Lesson 8



1. SELECT * FROM employees where Building IS NULL;
2. SELECT DISTINCT building_name FROM buildings LEFT JOIN employees

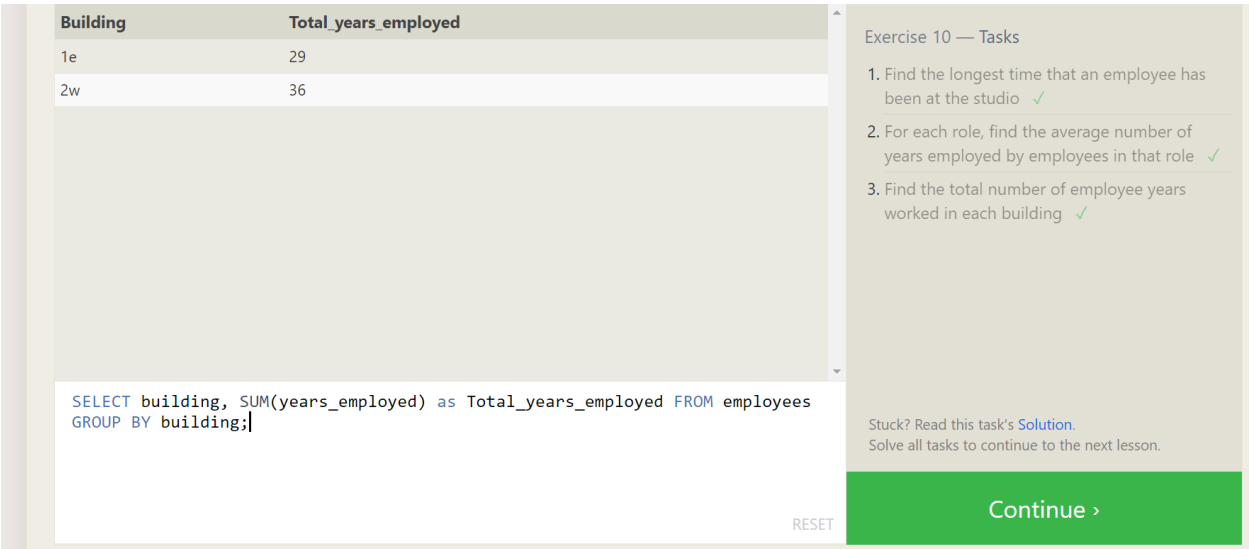
ON building_name = building WHERE role IS NULL;

Lesson 9



1. SELECT title, (domestic_sales + international_sales) / 1000000 AS combined_sales FROM movies JOIN boxoffice ON movies.id = boxoffice.movie_id;
2. SELECT Title,Rating * 10 AS Percentage_Rating FROM movies JOIN boxoffice ON movies.id = boxoffice.movie_id;
3. SELECT title, year FROM movies WHERE Year % 2 = 0;

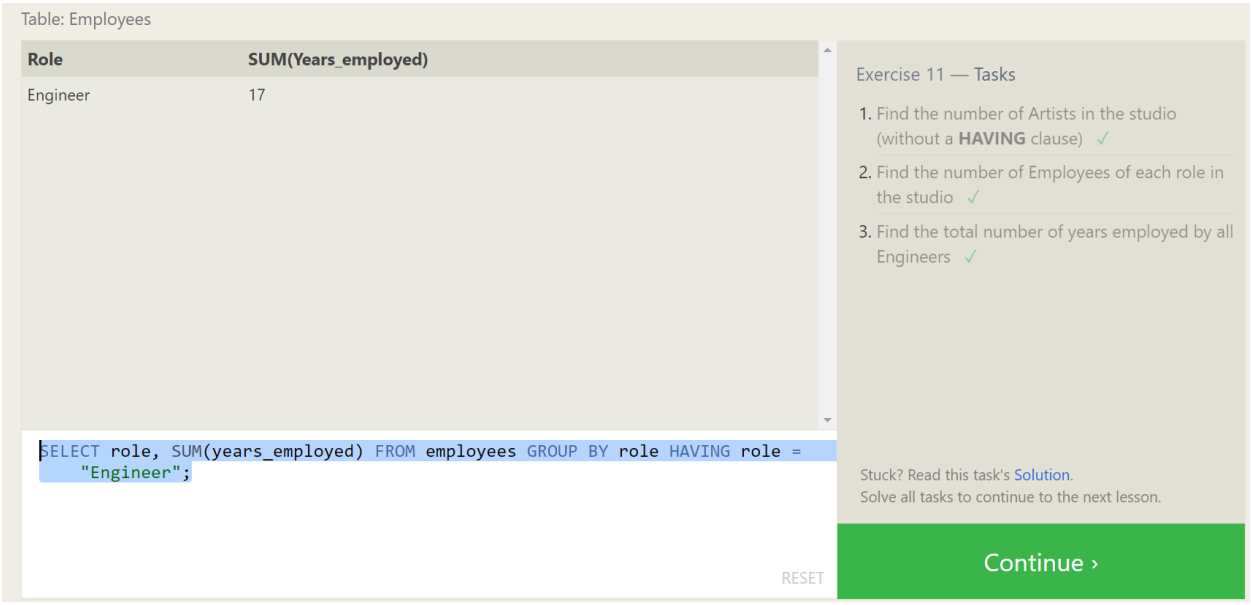
Lesson 10



1. SELECT name,max(Years_employed) FROM employees;

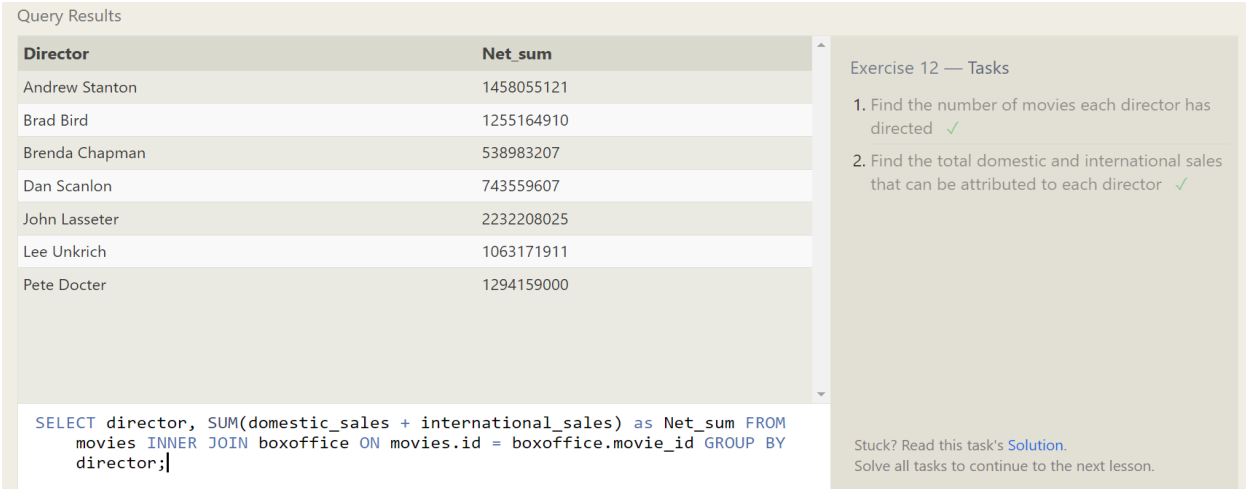
2. SELECT role, AVG(years_employed) as Average_years_employed FROM employees GROUP BY role;
3. SELECT building, SUM(years_employed) as Total_years_employed FROM employees GROUP BY building;

Lesson 11



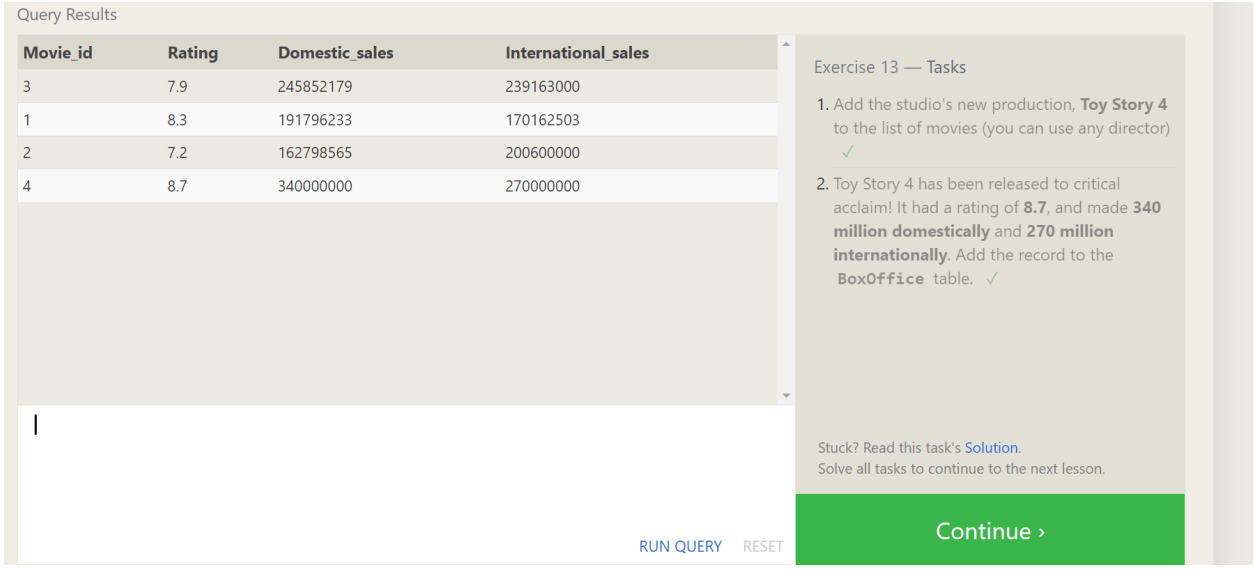
1. SELECT role, COUNT(*) as Number_of_artists FROM employees WHERE role = "Artist";
2. SELECT role, COUNT(*) as Number_of_artists FROM employees group by role;
3. SELECT role, SUM(years_employed) FROM employees GROUP BY role HAVING role = "Engineer";

Lesson 12



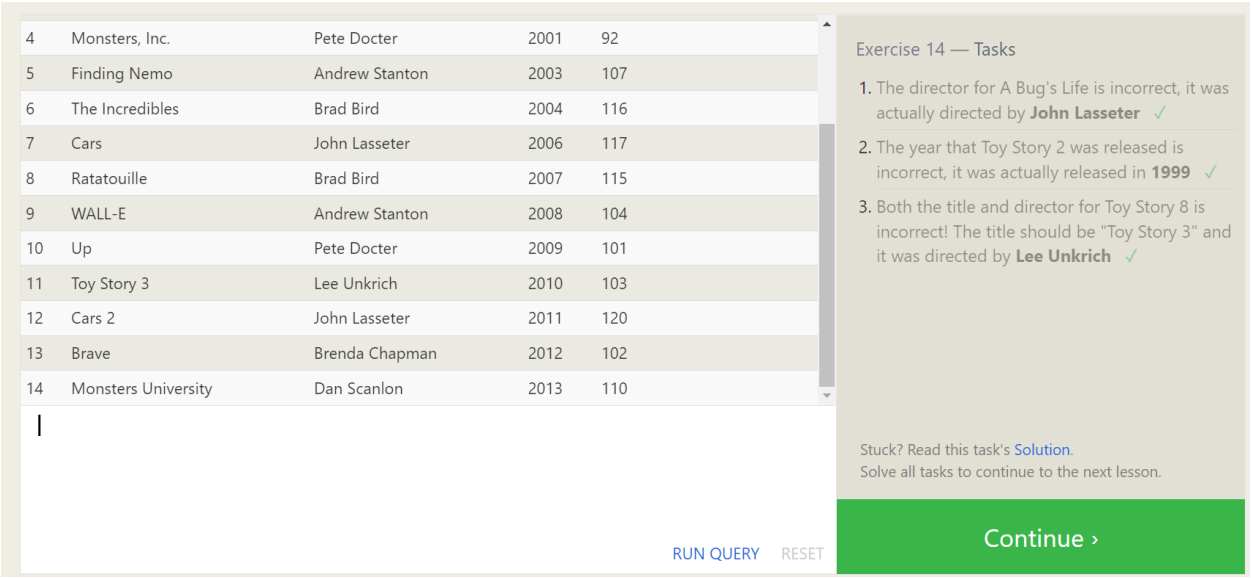
1. SELECT director, COUNT(id) as Num_movies_directed FROM movies GROUP BY director;
2. SELECT director, SUM(domestic_sales + international_sales) as Net_sum FROM movies INNER JOIN boxoffice ON movies.id = boxoffice.movie_id GROUP BY director;

Lesson 13



1. INSERT INTO movies VALUES (11, "Toy Story 4", "John Lasseter", 2011, 120);
2. INSERT INTO boxoffice VALUES (11, 8.7, 340000000, 270000000);

Lesson 14



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
12	Cars 2	John Lasseter	2011	120
13	Brave	Brenda Chapman	2012	102
14	Monsters University	Dan Scanlon	2013	110

1. UPDATE movies SET director = "John Lasseter" WHERE id = 2;
2. UPDATE movies SET year = 1999 WHERE id = 3;
3. UPDATE movies SET Title = "Toy Story 3" ,Director = "Lee Unkrich" WHERE id = 11;

Lesson 15

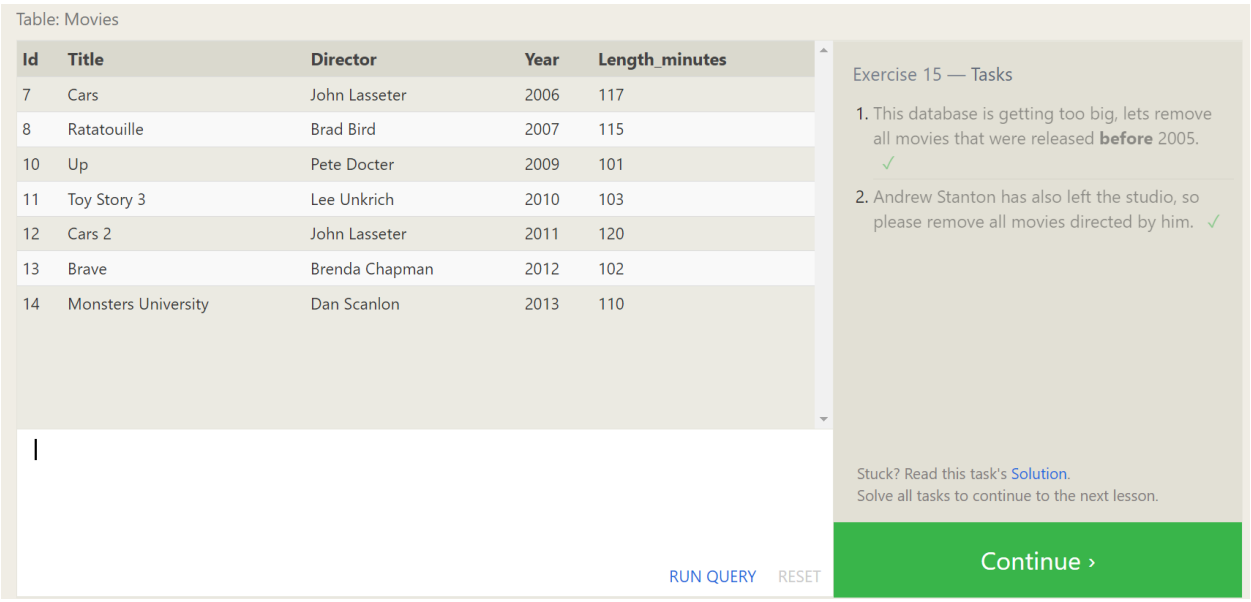
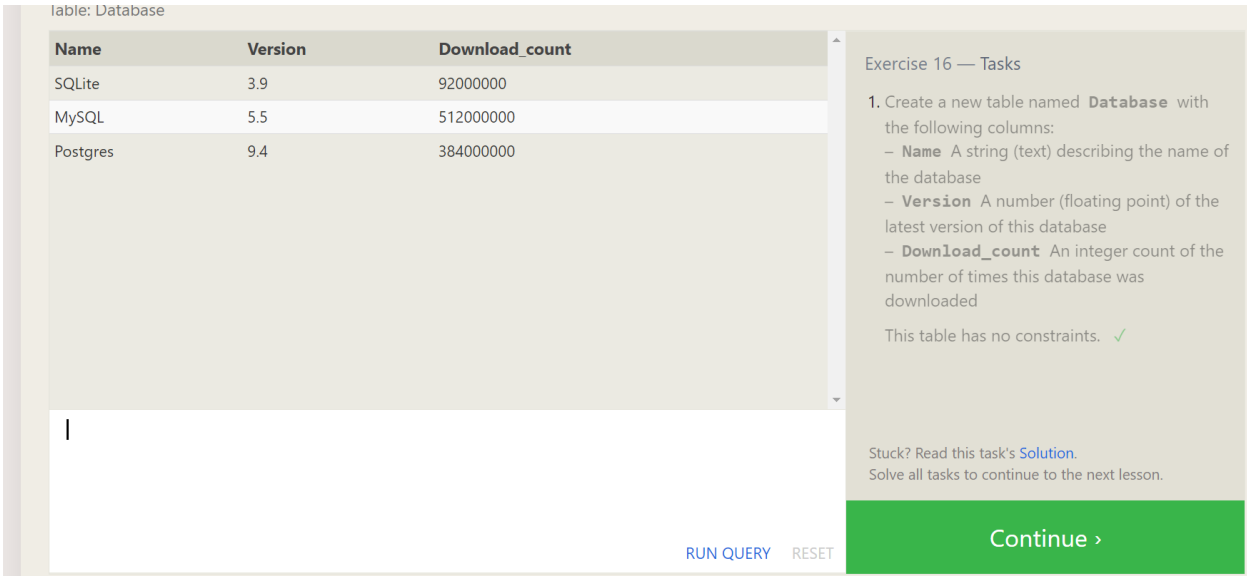


Table: Movies

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

1. DELETE FROM movies WHERE Year<2005;
2. DELETE FROM movies WHERE Director = "Andrew Stanton";

Lesson 16

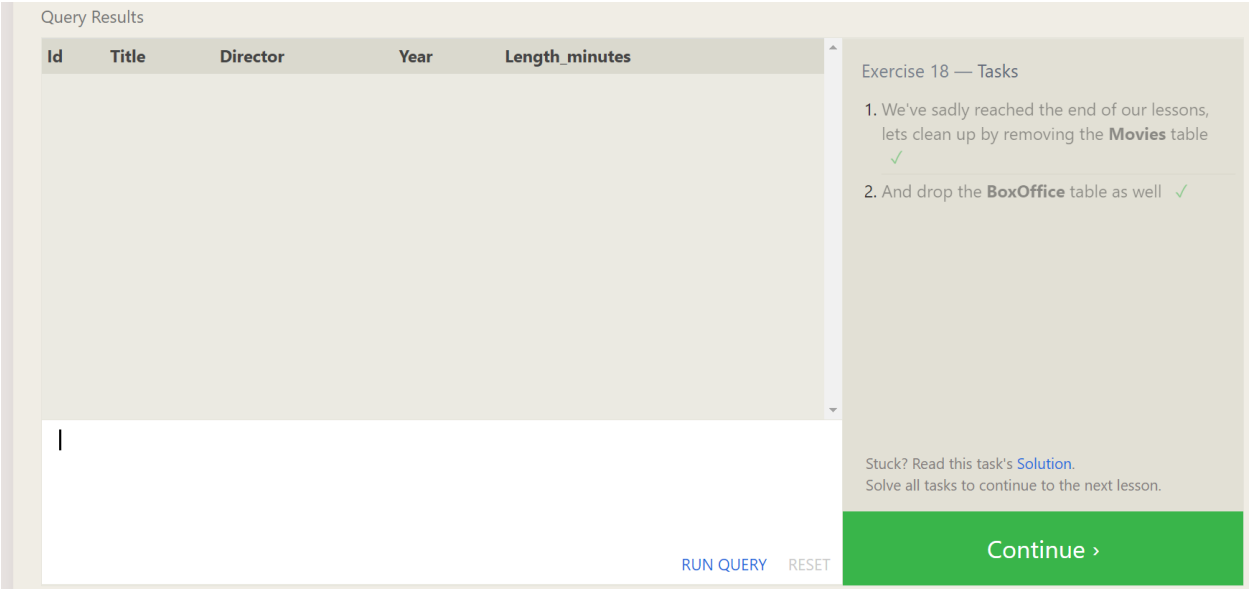


1. CREATE TABLE Database(
   Name TEXT,
   Version FLOAT,
   Download_count INTEGER
   );

Lesson 17

1. ALTER TABLE movies ADD Aspect_ratio FLOAT;
2. ALTER TABLE movies ADD Language TEXT DEFAULT English;

Lesson 18



1. DROP TABLE IF EXISTS movies;
2. DROP TABLE IF EXISTS Boxoffice;