

Table: Movies

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
WHERE year <= 2003;
SELECT Title, Year FROM movies WHERE Director LIKE 'Pixar%' LIMIT 5;
SELECT * FROM movies WHERE year NOT BETWEEN 2000 AND 2010;
SELECT * FROM movies WHERE year BETWEEN 2000 AND 2010;
SELECT * FROM movies WHERE Id = 6;
```

Exercise 2 — Tasks

- **1.** Find the movie with a row id of 6 \checkmark
- 2. Find the movies released in the year's
- 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 >

Table: Movies

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

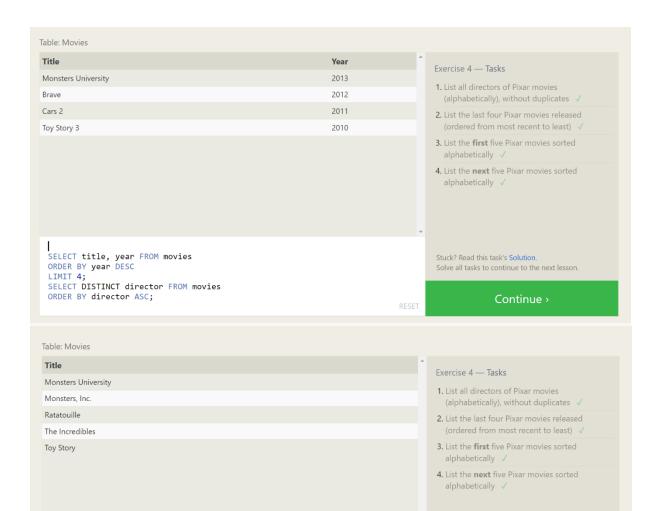
Exercise 3 — Tasks

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

SELECT * FROM movies WHERE Title LIKE 'WALL-%';
SELECT * FROM movies WHERE Director !='John Lasseter';
SELECT * FROM movies WHERE Director = 'John Lasseter';
SELECT * FROM movies WHERE Title LIKE 'Toy Story%';

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

Continue >





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

Continue >

SELECT title FROM movies ORDER BY title ASC LIMIT 5 OFFSET 5; SELECT title FROM movies

ORDER BY title ASC LIMIT 5;

Task-5

SELECT title, ratingFROM moviesJOIN boxofficeON movies.id = boxoffice.movie_id ORDER BY rating DESC;

SELECT title, domestic_sales, international_salesFROM moviesJOIN boxoffice

ON movies.id = boxoffice.movie_id WHERE international_sales > domestic_sales;

SELECT title, domestic_sales, international_sales FROM moviesJOIN boxoffice

ON movies.id = boxoffice.movie_id;



Task-6

SELECT city, population FROM north_american_cities WHERE country LIKE "United States" ORDER BY population DESC LIMIT 2 OFFSET 2;

SELECT city, population FROM north_american_cities WHERE country LIKE "Mexico" ORDER BY population DESC LIMIT 2;

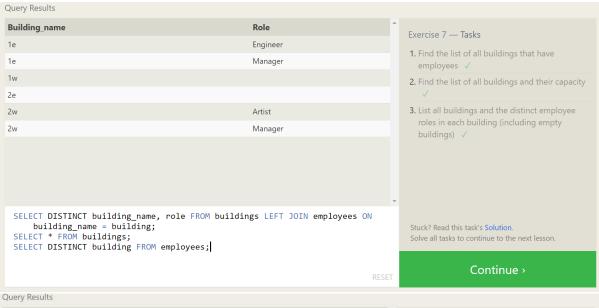
SELECT city, longitude FROM north_american_cities WHERE longitude < -87.629798

ORDER BY longitude ASC;

SELECT city, latitude FROM north_american_cities WHERE country = "United States" ORDER BY latitude DESC;

SELECT city, population FROM north american cities

WHERE country = "Canada";



Building_name

Exercise 8 — Tasks 1w 1. Find the name and role of all employees who 2e have not been assigned to a building 🗸 2. Find the names of the buildings that hold no employees 🗸 SELECT DISTINCT building_name FROM buildings
LEFT JOIN employees
ON building_name = building Stuck? Read this task's Solution. Solve all tasks to continue to the next lesson. WHERE role IS NULL;
SELECT name, role FROM employees
WHERE building IS NULL; Continue >

Query Results

ON movies.id = boxoffice.movie_id;

Title	Year	Evercise 9 — Tasks	
A Bug's Life	1998		
The Incredibles	2004	millions of dollars ✓	Si
Cars	Exercise 9 — Tasks 1998 1. List all movies and their combined so		
WALL-E	2008	3. List all movies that were released of	on
Toy Story 3	2010	number years ✓	
Brave	2012		
		v	
SELECT title, year FROM movies WHERE year % 2 = 0; SELECT title, rating * 10 AS rating_percent		Stuck? Read this task's Solution. Solve all tasks to continue to the next less	501
FROM movies JOIN boxoffice		Continue >	

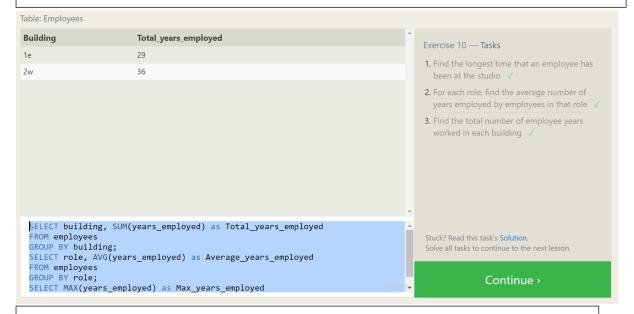
percent 🗸

Task-9

SELECT building, SUM(years_employed) as Total_years_employed FROM employees GROUP BY building;

SELECT role, AVG(years_employed) as Average_years_employed FROM employees GROUP BY role;

SELECT MAX(years_employed) as Max_years_employed FROM employees;



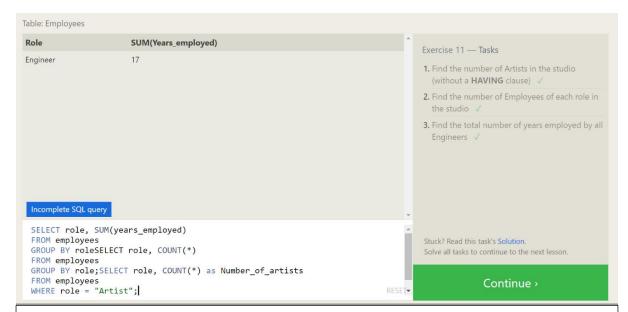
Task-10

SELECT title, year FROM movies WHERE year % 2 = 0;

SELECT title, rating * 10 AS rating_percent FROM movies JOIN boxoffice ON movies.id = boxoffice.movie_id;

SELECT title, (domestic_sales + international_sales) / 1000000 AS gross_sales_millions

FROM movies JOIN boxoffice ON movies.id = boxoffice.movie_id;



Task=11

SELECT role, SUM(years employed) FROM employees GROUP BY role;

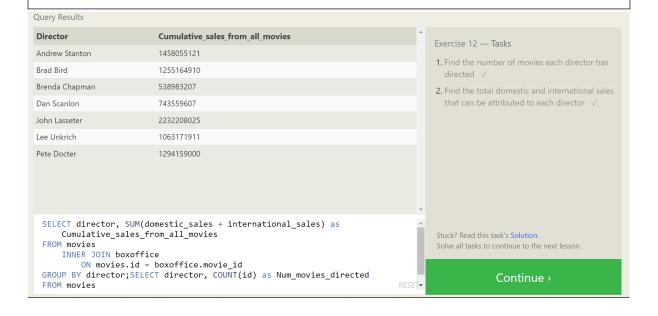
SELECT role, COUNT(*)

FROM employees

GROUP BY role; SELECT role, COUNT(*) as Number_of_artistsFROM employees

WHERE role = "Artist";

HAVING role = "Engineer";



Task-12

SELECT director, SUM(domestic_sales + international_sales) as Cumulative_sales_from_all_movies FROM movies INNER JOIN boxoffice

ON movies.id = boxoffice.movie_id GROUP BY director;

SELECT director, COUNT(id) as Num_movies_directedFROM movies

GROUP BY director;

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	34000000	270000000	

Exercise 13 — Tasks

- 1. Add the studio's new production, **Toy Story 4** to the list of movies (you can use any director)
- 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.

INSERT INTO boxoffice VALUES (4, 8.7, 340000000, 270000000); INSERT INTO movies VALUES (4, "Toy Story 4", "El Directore", 2015, 90);

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

RUN QUERY RESET

RUN QUERY RESET+

Continue >

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

UPDATE movies
SET title = "Toy Story 3", director = "Lee Unkrich"
WHERE id = 11; UPDATE movies
SET year = 1999
WHERE id = 3; UPDATE movies
SET director = "John Lasseter"
WHERE id = 2:

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 >

Table: Movies ld Title Director Year Length_minutes 7 Cars John Lasseter 2006 117 8 Brad Bird 115 Ratatouille 2007 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 2013 110 14 Monsters University Dan Scanlon

Exercise 15 — Tasks

- 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. \checkmark

DELETE FROM movies where director = "Andrew Stanton"; DELETE FROM movies where year < 2005;

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

RUN QUERY RESET

Continue >

Table: Database

Name	Version	Download_count	^
SQLite	3.9	92000000	
MySQL	5.5	512000000	
Postgres	9.4	384000000	

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. \checkmark

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

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

Continue >

RUN QUERY RESET

abl	e: Movies						
ld	Title	Director	Year	Length_minutes	Aspect_ratio	Language	Exercise 17 — Tasks
1	Toy Story	John Lasseter	1995	81	2.39	English	
2	A Bug's Life	John Lasseter	1998	95	2.39	English	 Add a column named Aspect_ratio with a FLOAT data type to store the aspect-ratio e
3	Toy Story 2	John Lasseter	1999	93	2.39	English	movie was released in. ✓
4	Monsters, Inc.	Pete Docter	2001	92	2.39	English	2. Add another column named Language with
5	Finding Nemo	Andrew Stanton	2003	107	2.39	English	TEXT data type to store the language that t
5	The Incredibles	Brad Bird	2004	116	2.39	English	for this language is English . \checkmark
7	Cars	John Lasseter	2006	117	2.39	English	
В	Ratatouille	Brad Bird	2007	115	2.39	English	
9	WALL-E	Andrew Stanton	2008	104	2.39	English	
10	Up	Pete Docter	2009	101	2.39	English	•
Al	ALTER TABLE Mo	guage TEXT DEFAU					Stuck? Read this task's Solution . Solve all tasks to continue to the next lesson.
					DUN	QUERY RESE	Continue >

uen/ F	tesults						
d d	Title	Director	Year	Length_minutes		*	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 ✓
	TABLE BOX					*	Stuck? Read this task's Solution. Solve all tasks to continue to the next lesson.
					RUN QUERY	RESET	Continue >