ld	Title	Director	Year	Length_minutes	î	Exercise 1 — Tasks
1	Toy Story	John Lasseter	1995	81		
2	A Bug's Life	John Lasseter	1998	95		1. Find the title of each film ✓
3	Toy Story 2	John Lasseter	1999	93		2. Find the director of each film ✓
1	Monsters, Inc.	Pete Docter	2001	92		3. Find the title and director of each film
5	Finding Nemo	Andrew Stanton	2003	107		<b>4.</b> Find the <b>title</b> and <b>year</b> of each film ✓
5	The Incredibles	Brad Bird	2004	116		5. Find all the information about each film ✓
7	Cars	John Lasseter	2006	117		5. The same the mornator about each min
3	Ratatouille	Brad Bird	2007	115		
)	WALL-E	Andrew Stanton	2008	104		
0	Up	Pete Docter	2009	101	-	
SE	LECT * FROM movies;					Stuck? Read this task's Solution. Solve all tasks to continue to the next lesson.
						Continue >
					RESET	Continue

#### Table: Movies

Year	<b>A</b>
1995	
1998	
1999	
2001	
2003	
	1995 1998 1999 2001

Exercise 2 — Tasks

- 1. Find the movie with a row id of 6  $\checkmark$
- 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 √

SELECT title, year FROM movies WHERE year <= 2003;

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

# Table: Movies

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

Exercise 3 — Tasks

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

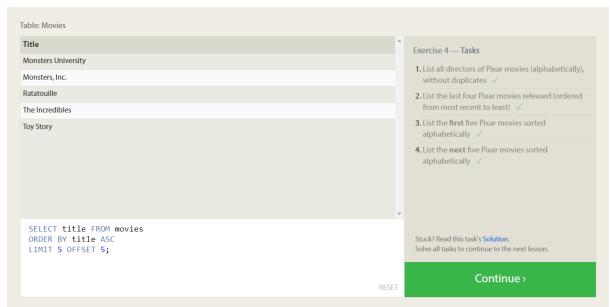
SELECT \* FROM movies
WHERE title LIKE "WALL-\_";

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

Continue >

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## Table: North\_american\_cities City Population Review 1 — Tasks Chicago 2718782 1. List all the Canadian cities and their populations Houston 2195914 2. Order all the cities in the United States by their latitude from north to south $\ \ \checkmark$ 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 🗸 SELECT city, population FROM north\_american\_cities WHERE country LIKE "United States" ORDER BY population DESC LIMIT 2 OFFSET 2; Stuck? Read this task's **Solution**. Solve all tasks to continue to the next lesson.

Table: Movies (Read-Only)					Table: Boxoffice (Read-Only)			
Id	Title	Director	Year	Length_minutes	Movie_id	Rating	Domestic_sales	International_sales
1	Toy Story	John Lasseter	1995	81	5	8.2	380843261	555900000
2	A Bug's Life	John Lasseter	1998	95	14	7.4	268492764	475066843
3	Toy Story 2	John Lasseter	1999	93	8	8	206445654	417277164
4	Monsters, Inc.	Pete Docter	2001	92	12	6.4	191452396	368400000
5	Finding Nemo	Andrew Stanton	2003	107	3	7.9	245852179	239163000
6	The Incredibles	Brad Bird	2004	116	6	8	261441092	370001000
7	C	Jaha Lassakan	2006	117	0	0.5	222000164	207502606

#### **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	Ш
The Incredibles	8	
Toy Story 2	7.9	
Monsters University	7.4	-

SELECT title, rating FROM movies JOIN boxoffice ON movies.id = boxoffice.movie\_id ORDER BY rating DESC;

### Exercise 6 — Tasks

- 1. Find the domestic and international sales for each
- 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 >

### Table: Buildings (Read-Only)

### Table: Employees (Read-Only)

RESET

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Building_name	Capacity	Role	Name	Building	Years_employed
1e	24	Engineer	Becky A.	1e	4
1w	32	Engineer	Dan B.	1e	2
2e	16	Engineer	Sharon F.	1e	6
2w	20	Engineer	Dan M.	1e	4
		Engineer	Malcom S.	1e	1
		Artist	Tylar S.	2w	2
		A	Ch D	2	0

### Query Results

Building_name	Role	_
1e	Engineer	
1e	Manager	
1w		
2e		
2w	Artist	
2w	Manager	

- 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\_name, role FROM buildings
LEFT JOIN employees
ON building\_name = building;

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

Continue >

Table: Buildings (Read-Only)		Table: Employe	es (Read-Only)		
Building_name	Capacity	Role	Name	Building	Years_employed
1e	24	Engineer	Becky A.	1e	4
1w	32	Engineer	Dan B.	1e	2
2e	16	Engineer	Sharon F.	1e	6
2w	20	Engineer	Dan M.	1e	4
		Engineer	Malcom S.	1e	1
		Artist	Tylar S.	2w	2
		A	CL D	2	^

## Query Results



Exercise 8 — Tasks

- 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

SELECT DISTINCT building\_name FROM buildings LEFT JOIN employees ON building\_name = building WHERE role IS NULL;

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

Continue >

Table: Movies (Read-Only)

Table: Boxoffice (Read-Only)

RESET

Id	Title	Director	Year	Length_minutes	Movie_id	Rating	Domestic_sales	International_sales
1	Toy Story	John Lasseter	1995	81	5	8.2	380843261	555900000
2	A Bug's Life	John Lasseter	1998	95	14	7.4	268492764	475066843
3	Toy Story 2	John Lasseter	1999	93	8	8	206445654	417277164
4	Monsters, Inc.	Pete Docter	2001	92	12	6.4	191452396	368400000
5	Finding Nemo	Andrew Stanton	2003	107	3	7.9	245852179	239163000
6	The Incredibles	Brad Bird	2004	116	6	8	261441092	370001000
7	Care	John Laccotor	2006	117	0	0 5	222000164	207502606

## **Query Results**

Title	Year	٨
A Bug's Life	1998	
The Incredibles	2004	
Cars	2006	
WALL-E	2008	
Toy Story 3	2010	
Brave	2012	

Exercise 9 — Tasks

- $\textbf{1.} \ \mathsf{List} \ \mathsf{all} \ \mathsf{movies} \ \mathsf{and} \ \mathsf{their} \ \mathsf{combined} \ \mathsf{sales} \ \mathsf{in}$ millions of dollars  $\ \ \checkmark$
- 2. List all movies and their ratings in percent  $\checkmark$
- 3. List all movies that were released on even number years 🗸

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

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

Continue >

Table: Employees			
Building	Total	^	Exercise 10 — Tasks
1e	29		1. Find the longest time that an employee has been
2w	36		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 ✓
SELECT building, SUM(years_e building;	mployed) as Total FROM employees GROUP BY		Stuck? Read this task's <b>Solution</b> . Solve all tasks to continue to the next lesson.
		RESET	Continue >

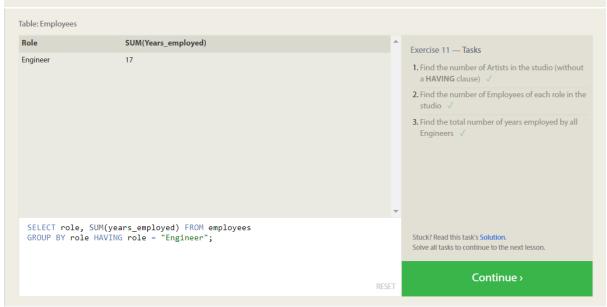


Table: Movies (Read-Only)					Table: Boxoffice (Read-Only)			
Id	Title	Director	Year	Length_minutes	Movie_id	Rating	Domestic_sales	International_sales
1	Toy Story	John Lasseter	1995	81	5	8.2	380843261	555900000
2	A Bug's Life	John Lasseter	1998	95	14	7.4	268492764	475066843
3	Toy Story 2	John Lasseter	1999	93	8	8	206445654	417277164
4	Monsters, Inc.	Pete Docter	2001	92	12	6.4	191452396	368400000
5	Finding Nemo	Andrew Stanton	2003	107	3	7.9	245852179	239163000
6	The Incredibles	Brad Bird	2004	116	6	8	261441092	370001000
-	C	Introduction	2006	***		0.5	222000164	207502606

### Query Results

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

Exercise 12 — Tasks

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

SELECT director, SUM(domestic\_sales + international\_sales) as sales FROM movies INNER JOIN boxoffice ON movies.id = boxoffice.movie\_id GROUP BY director;

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

Continue >

RESET

#### Table: Movies (Read-Only)

Tal	ble:	Boxof	fice	(Read	-On	y)

Id	Title	Director	Year	Length_minutes	Movie_id	Rating	Domestic_sales	International_sales
1	Toy Story	John Lasseter	1995	81	3	7.9	245852179	239163000
2	A Bug's Life	John Lasseter	1998	95	1	8.3	191796233	170162503
3	Toy Story 2	John Lasseter	1999	93	2	7.2	162798565	200600000
4	Toy Story 4	El Directore	2015	90	4	8.7	340000000	270000000

# Query Results

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

### Exercise 13 — Tasks

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

г

Continue >

RUN QUERY RESET

ld	Title	Director	Year	Length_minutes	^	Exercise 14 — Tasks
1	Toy Story	John Lasseter	1995	81		The director for A Bug's Life is incorrect, it was
2	A Bug's Life	John Lasseter	1998	95		actually directed by John Lasseter 🗸
3	Toy Story 2	John Lasseter	1999	93		2. The year that Toy Story 2 was released is incorrec
4	Monsters, Inc.	Pete Docter	2001	92		it was actually released in 1999 ✓
5	Finding Nemo	Andrew Stanton	2003	107		<ol><li>Both the title and director for Toy Story 8 is incorrect! The title should be "Toy Story 3" and it</li></ol>
6	The Incredibles	Brad Bird	2004	116		was directed by <b>Lee Unkrich</b> ✓
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	•	
						Stuck? Read this task's Solution. Solve all tasks to continue to the next lesson.
						Continue >

#### Table: Movies

Id	Title	Director	Year	Length_minutes	٨
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	

### 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.  $\ \lor$

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	38400000

## Exercise 16 — Tasks

- 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 >

RUN QUERY RESET

Tabl	e: Movies						
Id	Title	Director	Year	Length_minutes	Aspect_ratio	Language	Exercise 17 — Tasks
1	Toy Story	John Lasseter	1995	81	2.39	English	Add a column named Aspect_ratio with a FLO.
2	A Bug's Life	John Lasseter	1998	95	2.39	English	data type to store the aspect-ratio each movie
3	Toy Story 2	John Lasseter	1999	93	2.39	English	was released in. ✓
4	Monsters, Inc.	Pete Docter	2001	92	2.39	English	<ol><li>Add another column named Language with a TEXT data type to store the language that the</li></ol>
5	Finding Nemo	Andrew Stanton	2003	107	2.39	English	movie was released in. Ensure that the default f
6	The Incredibles	Brad Bird	2004	116	2.39	English	this language is <b>English</b> . ✓
7	Cars	John Lasseter	2006	117	2.39	English	
8	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	▼
							Stuck? Read this task's Solution. Solve all tasks to continue to the next lesson.
					RU	N QUERY RE	Continue >

