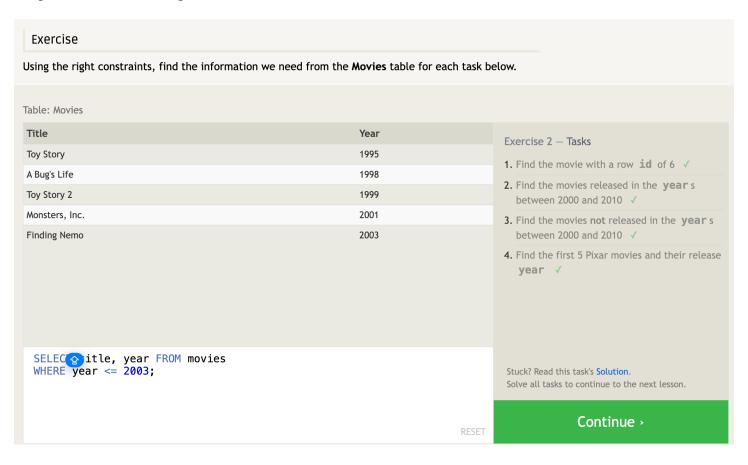
SQL Task - Day 1

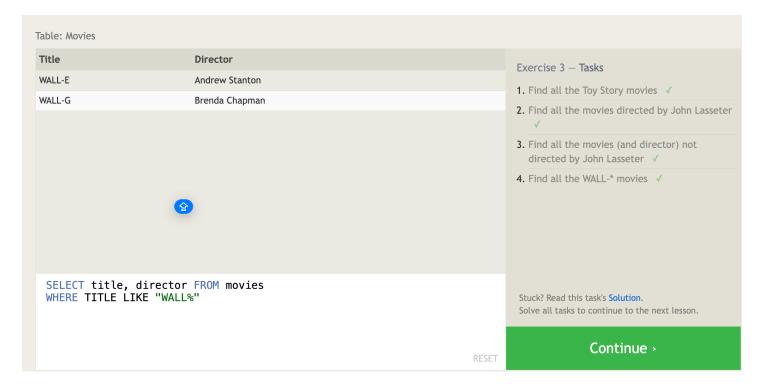
SQL Lesson 1: SELECT queries 101

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

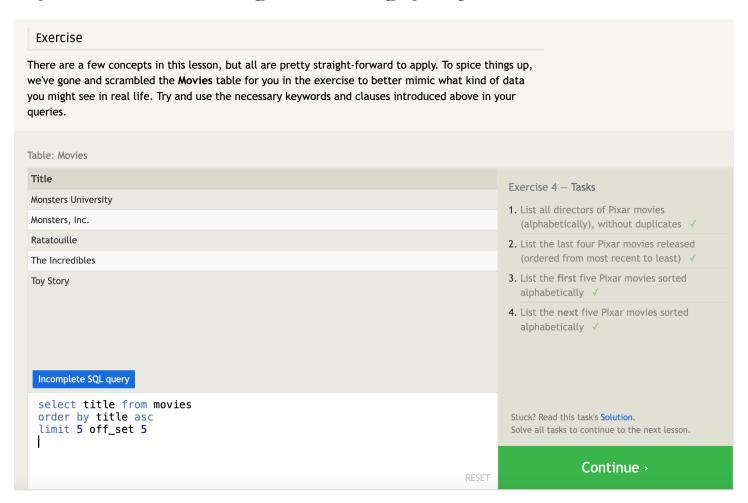
SQL Lesson 2: Queries with constraints (Pt. 1)



SQL Lesson 3: Queries with constraints (Pt. 2)



SQL Lesson 4: Filtering and sorting Query results



SQL Review: Simple SELECT Queries

Try and write some queries to find the information requested in the tasks you know. You may have to use a different combination of clauses in your query for each task. Once you're done, continue onto the next lesson to learn about queries that span multiple tables.

Table: North_american_cit	ies	
City	Population	Review 1 — Tasks
Chicago	2718782	1. List all the Canadian cities and their
Houston	2195914	populations ✓
		Order all the cities in the United States by their latitude from north to south √
		 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, popu WHERE country LIK ORDER BY populati LIMIT 2 OFFSET 2;		Stuck? Read this task's Solution . Solve all tasks to continue to the next lesson.
		Continue >

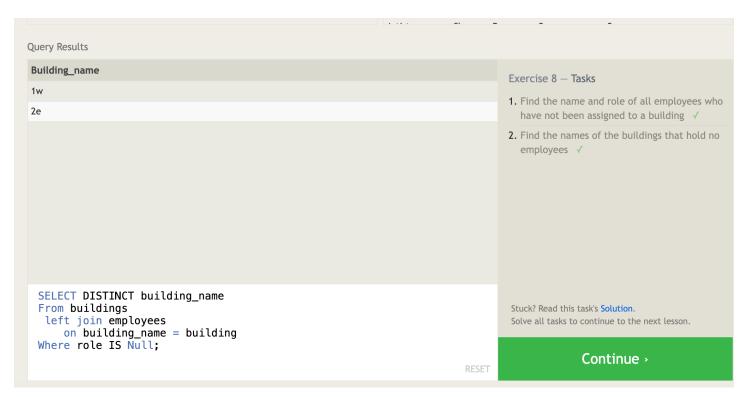
SQL Lesson 6: Multi-table queries with JOINs

Title	Rating	Exercise 6 — Tasks
WALL-E	8.5	
Toy Story 3	8.4	 Find the domestic and international sales in each movie √
Toy Story	8.3	2. Show the sales numbers for each movie the
Up	8.3	did better internationally rather than
Finding Nemo	8.2	domestically √
Monsters, Inc.	8.1	 List all the movies by their ratings in descending order √
Ratatouille	8	
The Incredibles	8	
Toy Story 2	7.9	
Monsters University	7.4	
<pre>SELECT title, rating FROM movies JOIN boxoffice ON movies.id = boxoffice.movie_id ORDER BY rating DESC;</pre>		Stuck? Read this task's Solution. Solve all tasks to continue to the next lesson. Continue >

SQL Lesson 7: OUTER JOINs

Building_name Role 1e Engineer 1e Manager 1w 2e 2w Artist 2w Manager	 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 employer roles in each building (including empty buildings) √
1e Manager 1w 2e 2w Artist	employees ✓ 2. Find the list of all buildings and their capacity ✓ 3. List all buildings and the distinct employer roles in each building (including empty)
1w 2e 2w Artist	 2. Find the list of all buildings and their capacity √ 3. List all buildings and the distinct employer roles in each building (including empty)
2e 2w Artist	capacity √ 3. List all buildings and the distinct employer roles in each building (including empty)
2w Artist	3. List all buildings and the distinct employer roles in each building (including empty
	roles in each building (including empty
2w Manager	
<pre>SELECT DISTINCT building_name, role FROM buildings LEFT JOIN employees ON building_name = building;</pre>	Stuck? Read this task's Solution . Solve all tasks to continue to the next lesson.
	Continue >

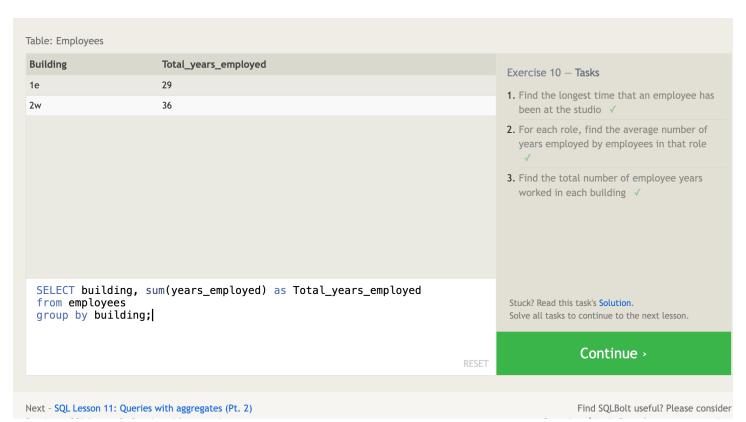
SQL Lesson 8: A short note on NULLs



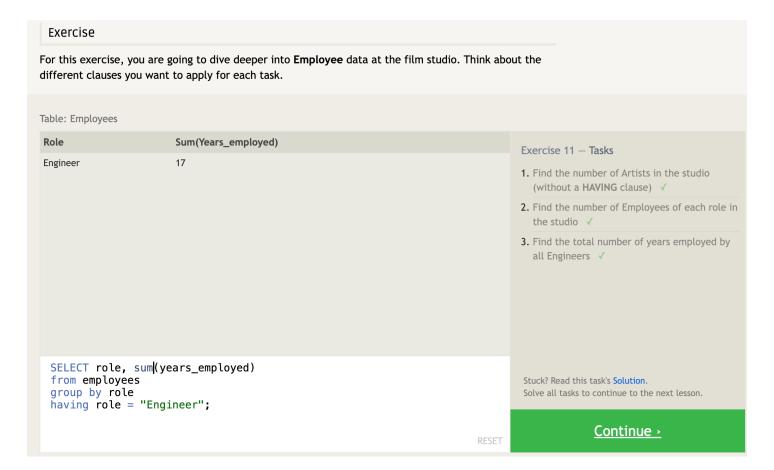
SQL Lesson 9: Queries with expressions

Query Results			
Title	Year		Exercise 9 — Tasks
A Bug's Life	1998		List all movies and their combined sales in
The Incredibles	2004		millions of dollars ✓
Cars	2006		2. List all movies and their ratings in percent
WALL-E	2008		✓
Toy Story 3	2010		3. List all movies that were released on even
Brave	2012		number years √
<pre>SELECT title, year from movies where year % 2 = 0;</pre>			Stuck? Read this task's Solution . Solve all tasks to continue to the next lesson.
	RE	ESET	Continue >

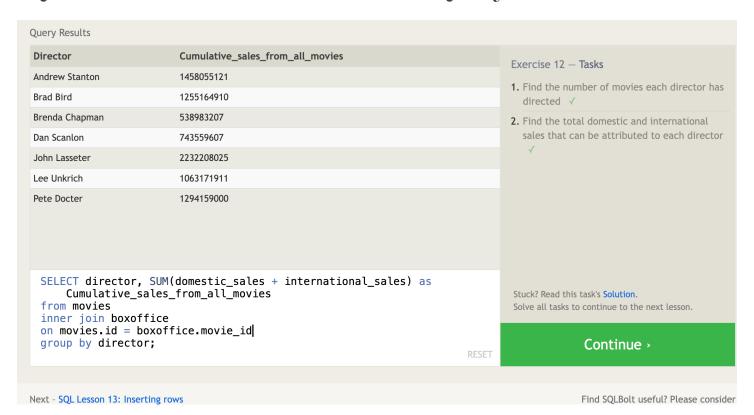
SQL Lesson 10: Queries with aggregates (Pt. 1)



SQL Lesson 11: Queries with aggregates (Pt. 2)



SQL Lesson 12: Order of execution of a Query



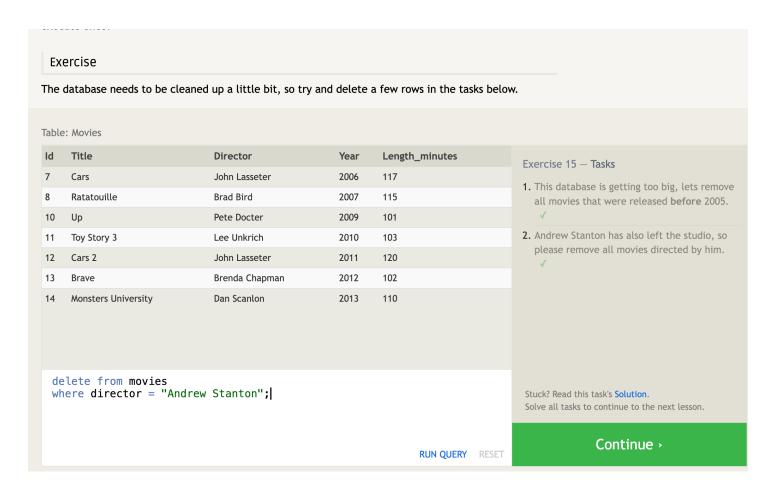
SQL Lesson 13: Inserting rows

Movie_id	Rating	Domestic_sales	International_sales	Exercise 13 — Tasks
3	7.9	245852179	239163000	1. Add the studio's new production, Toy Story 4
1	8.3	191796233	170162503	to the list of movies (you can use any
2	7.2	162798565	200600000	director) √
4	8.7	34000000	270000000	2. Toy Story 4 has been released to critical acclaim! It had a rating of 8.7, and made 34 million domestically and 270 million internationally. Add the record to the BoxOffice table. √
insert i	nto boxoffice	e values (4, 8.7, 3	340000000, 270000000);	Stuck? Read this task's Solution . Solve all tasks to continue to the next lesson.
insert i	nto boxoffice	e values (4, 8.7, 3	840000000, 270000000); RUN QUERY RESET	

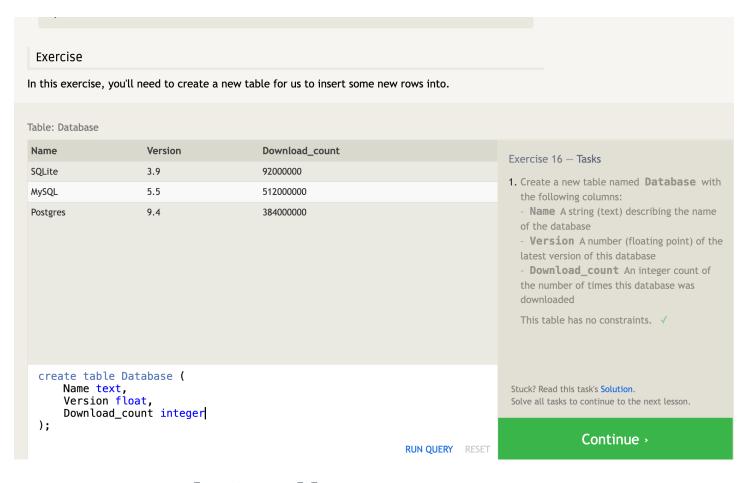
SQL Lesson 14: Updating rows

ld	Title	Director	Year	Length_minutes	Exercise 14 — Tasks
1	Toy Story	John Lasseter	1995	81	
2	A Bug's Life	John Lasseter	1998	95	 The director for A Bug's Life is incorrect, it was actually directed by John Lasseter
3	Toy Story 2	John Lasseter	1999	93	2. The year that Toy Story 2 was released is
4	Monsters, Inc.	Pete Docter	2001	92	incorrect, it was actually released in 1999
5	Finding Nemo	Andrew Stanton	2003	107	2 Both the title and dispetanting for Toy Story 0.
5	The Incredibles	Brad Bird	2004	116	Both the title and director for Toy Story 8 incorrect! The title should be "Toy Story 3"
7	Cars	John Lasseter	2006	117	and it was directed by Lee Unkrich 🗸
8	Ratatouille	Brad Bird	2007	115	
9	WALL-E	Andrew Stanton	2008	104	
10	Up	Pete Docter	2009	101	
				RUN QUERY RES	Stuck? Read this task's Solution. Solve all tasks to continue to the next lesson. Continue >

SQL Lesson 15: Deleting rows



SQL Lesson 16: Creating tables



SQL Lesson 17: Altering tables

1 T	Fitle Foy Story	Director	Year				
2 4	•			Length_minutes	Aspect_ratio	Language	
		John Lasseter	1995	81	2.39	English	Exercise 17 – Tasks
3 Т	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
	Toy Story 2	John Lasseter	1999	93	2.39	English	each movie was released in. ✓
4 A	Monsters, Inc.	Pete Docter	2001	92	2.39	English	2. Add another column named Language with
5 F	Finding Nemo	Andrew Stanton	2003	107	2.39	English	TEXT data type to store the language that the movie was released in. Ensure that the
5 T	The Incredibles	Brad Bird	2004	116	2.39	English	default for this language is English . ✓
7 (Cars	John Lasseter	2006	117	2.39	English	
B R	Ratatouille	Brad Bird	2007	115	2.39	English	
) V	WALL-E	Andrew Stanton	2008	104	2.39	English	
10 L	Jp	Pete Docter	2009	101	2.39	English	
alter table Movies add column Language text default "English";							Stuck? Read this task's Solution . Solve all tasks to continue to the next lesson.

SQL Lesson 18: Dropping tables

