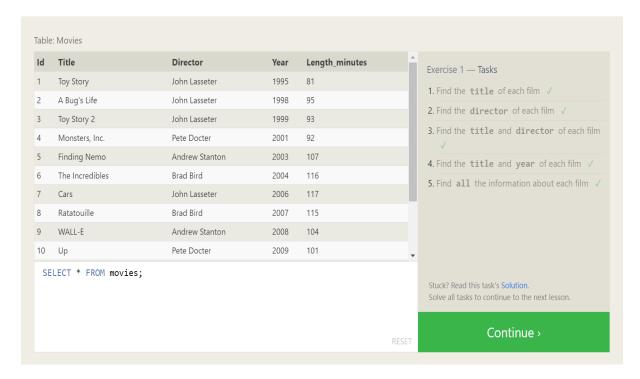
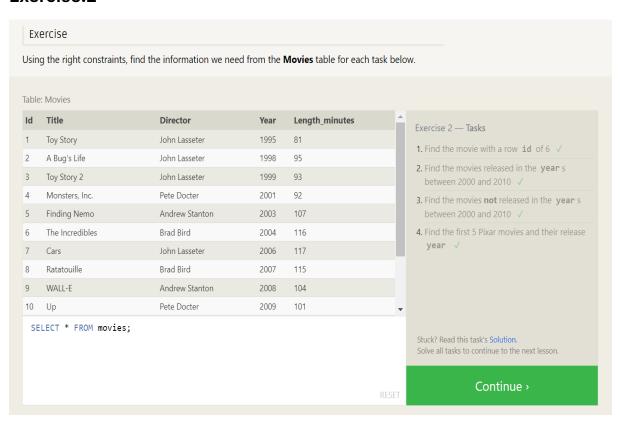
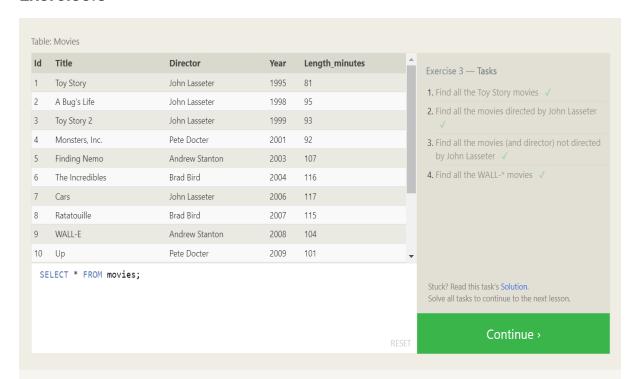
MySQL Queries

Exercise:1







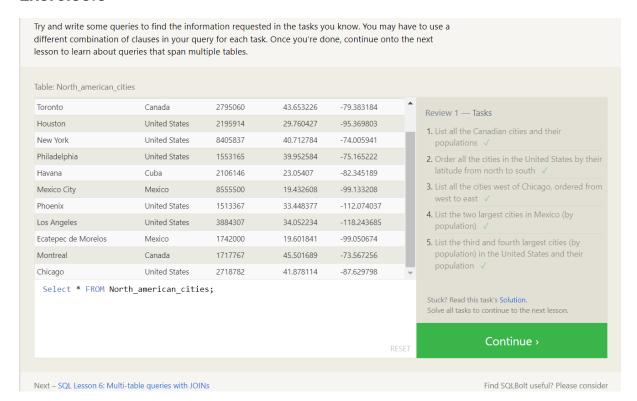
Next – SQL Lesson 4: Filtering and sorting Query results Previous – SQL Lesson 2: Queries with constraints (Pt. 1) Find SQLBolt useful? Please consider Donating (\$4) via Paypal to support our site.

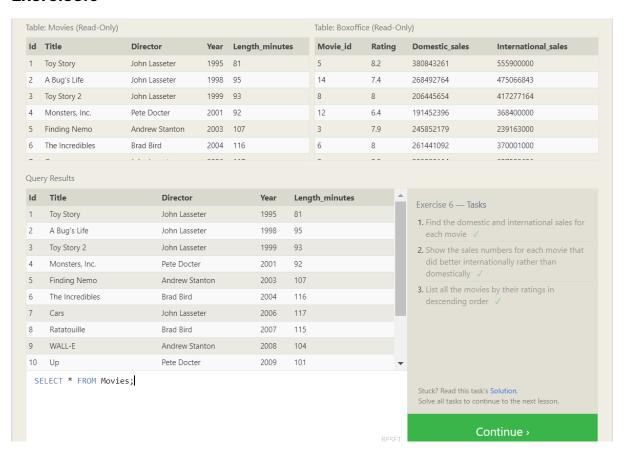
Exercise:4

Exercise

There are a few concepts in this lesson, but all are pretty straight-forward to apply. To spice things up, we've gone and scrambled the **Movies** table for you in the exercise to better mimic what kind of data you might see in real life. Try and use the necessary keywords and clauses introduced above in your queries.

d	Title	Director	Year	Length_minutes	Exercise 4 — Tasks
	Toy Story	John Lasseter	1995	81	List all directors of Pixar movies
	Toy Story 3	Lee Unkrich	2010	103	(alphabetically), without duplicates ✓
	Monsters University	Dan Scanlon	2013	110	2. List the last four Pixar movies released
	A Bug's Life	John Lasseter	1998	95	(ordered from most recent to least) \checkmark
	Brave	Brenda Chapman	2012	102	3. List the first five Pixar movies sorted
)	Finding Nemo	Andrew Stanton	2003	107	alphabetically ✓
7	Up	Pete Docter	2009	101	 List the next five Pixar movies sorted alphabetically √
3	Toy Story 2	John Lasseter	1999	93	
9	Cars	John Lasseter	2006	117	
10	Cars 2				





Exercise

In this exercise, you are going to be working with a new table which stores fictional data about **Employees** in the film studio and their assigned office **Buildings**. Some of the buildings are new, so they don't have any employees in them yet, but we need to find some information about them regardless.

below.

Table: Buildings (Read-Only)

Table: Employees (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

Query Results

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 employee roles in each building (including empty buildings)

SELECT DISTINCT b.Building_name, e.Role FROM Buildings b
LEFT JOIN Employees e ON b.Building_name = e.Building;

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



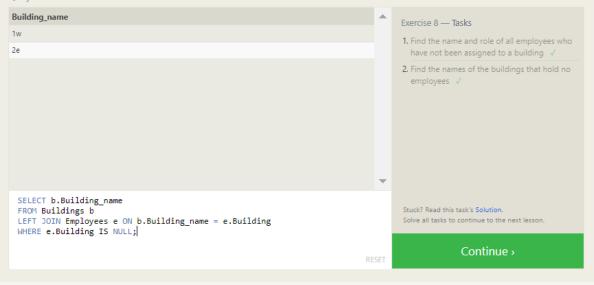
This exercise will be a sort of review of the last few lessons. We're using the same **Employees** and **Buildings** table from the last lesson, but we've hired a few more people, who haven't yet been assigned a building.

Table: Buildings (Read-Only)

Table: Employees (Read-Only)

Building_name	Capacity	Artist	Lillia A.	2w	7
1e	24	Artist	Brandon J.	2w	7
1w	32	Manager	Scott K.	1e	9
2e	16	Manager	Shirlee M.	1e	3
2w	20	Manager	Daria O.	2w	6
		Engineer	Yancy I.		0
		Artist	Oliver P.		0

Query Results



Next – SQL Lesson 9: Queries with expressions Previous – SQL Lesson 7: OUTER JOINs Find SQLBolt useful? Please consider Donating (\$4) via Paypal to support our site.

Exercise

You are going to have to use expressions to transform the **BoxOffice** data into something easier to understand for the tasks below.

Table: Movies (Read-Only)

Table: Boxoffice (Read-Only)

ld	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

Query Results

ld	Title	Director	Year	Length_minutes	
2	A Bug's Life	John Lasseter	1998	95	
6	The Incredibles	Brad Bird	2004	116	
7	Cars	John Lasseter	2006	117	
9	WALL-E	Andrew Stanton	2008	104	
11	Toy Story 3	Lee Unkrich	2010	103	
13	Brave	Brenda Chapman	2012	102	

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 √

SELECT * FROM Movies WHERE Year % 2 = 0;

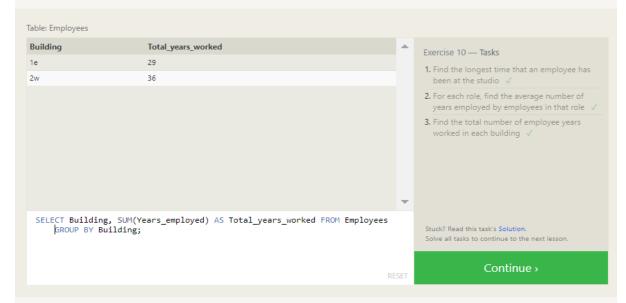
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue >

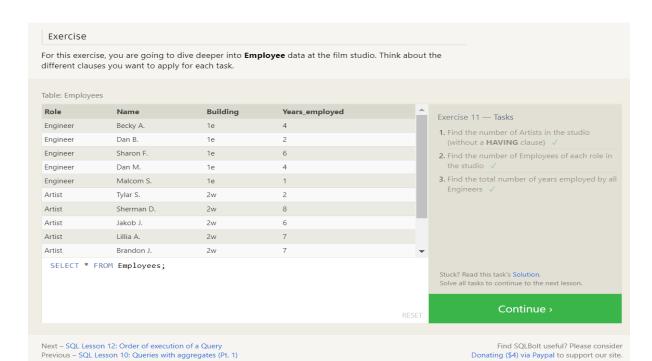
Next – SQL Lesson 10: Queries with aggregates (Pt. 1) Previous – SQL Lesson 8: A short note on NULLs Find SQLBolt useful? Please consider Donating (\$4) via Paypal to support our site.

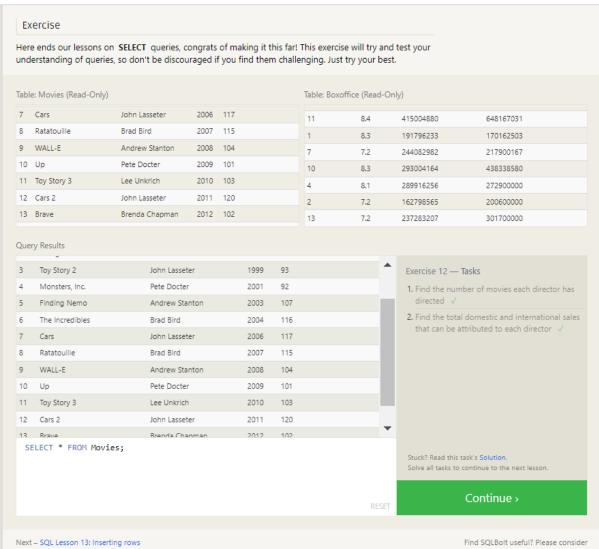


For this exercise, we are going to work with our **Employees** table. Notice how the rows in this table have shared data, which will give us an opportunity to use aggregate functions to summarize some high-level metrics about the teams. Go ahead and give it a shot.



Next – SQL Lesson 11: Queries with aggregates (Pt. 2) Previous – SQL Lesson 9: Queries with expressions Find SQLBolt useful? Please consider Donating (\$4) via Paypal to support our site.





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

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Exercise

In this exercise, we are going to play studio executive and add a few movies to the **Movies** to our portfolio. In this table, the **Id** is an auto-incrementing integer, so you can try inserting a row with only the other columns defined.

Since the following lessons will modify the database, you'll have to manually run each query once they are ready to go.

Table: Movies (Read-Only)

Table: Boxoffice (Read-Only)

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	ld	Title	Director	Year	Length_minutes	Movie_id	Rating	Domestic_sales	International_sales
3 Toy Story 2 John Lasseter 1999 93 2 7.2 162798565 200600000	1	Toy Story	John Lasseter	1995	81	3	7.9	245852179	239163000
- 1, 11, 1	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 John Lasseter 2022 100 4 8.7 340000000 2700000000	4	Toy Story 4	John Lasseter	2022	100	4	8.7	340000000	2700000000

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	2700000000

INSERT INTO Boxoffice (Movie_id, Rating, Domestic_sales, International_sale) VALUES (4, 8.7, 340000000, 2700000000);

Exercise 13 — Tasks

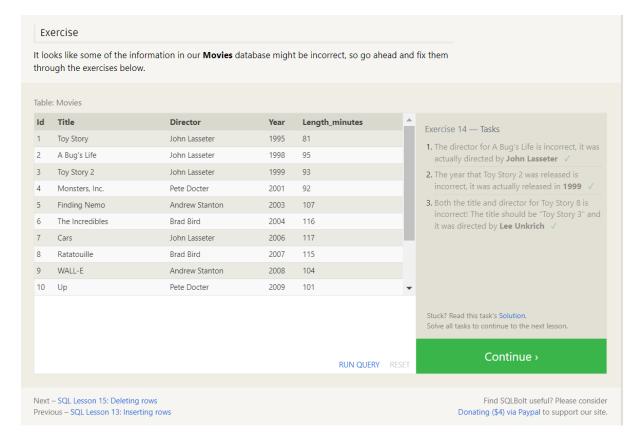
- 2. Toy Story 4 has been released to critical acclaim! It had a rating of 8.7, and made 340 million domestically and 270 million internationally. Add the record to the BoxOffice table.

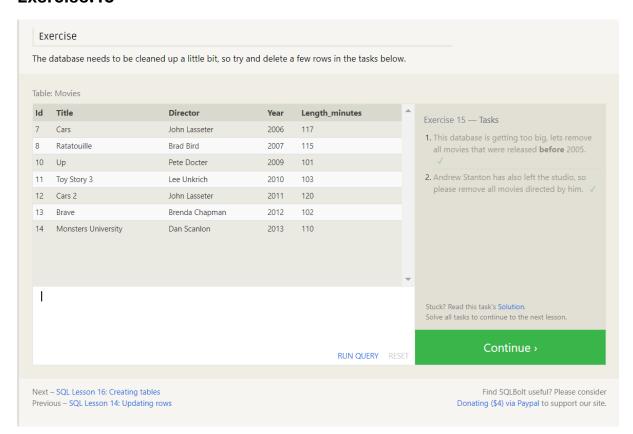
 ✓

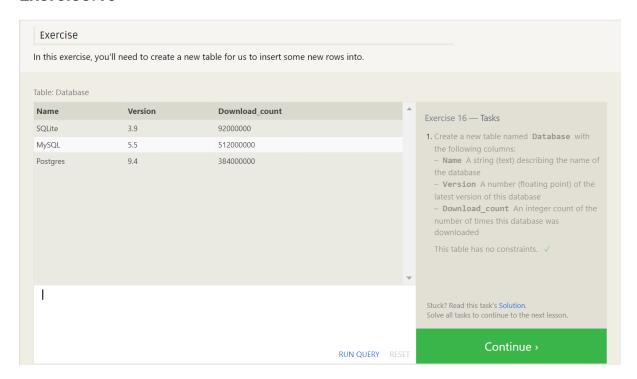
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

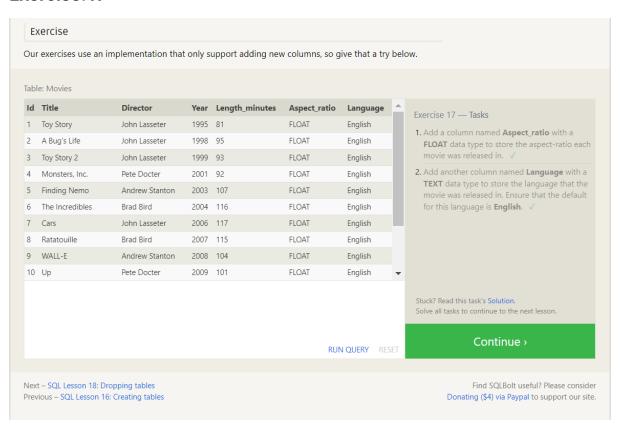
Continue >

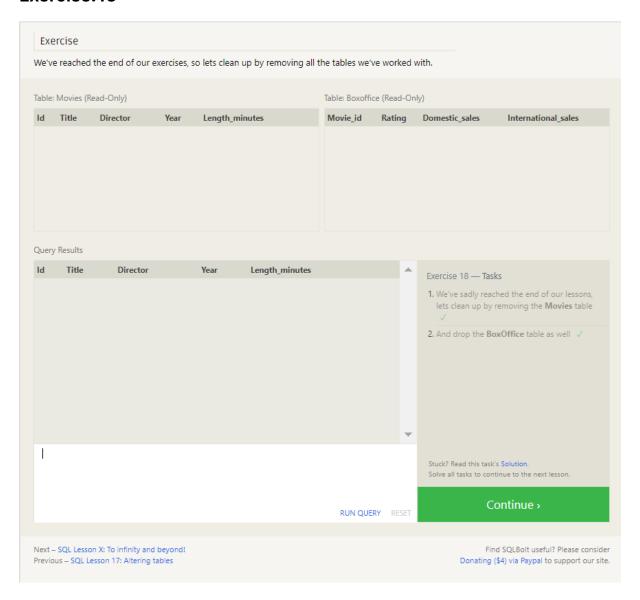
RUN QUERY RESET











SQL Lesson X: To infinity and beyond!



You've finished the tutorial!

We hope the lessons have given you a bit more experience with SQL and a bit more confidence to use SQL

We've just brushed the surface of what SQL is capable of, so to get a better idea of how SQL can be used in the real world, we'll be adding more articles in the More Topics part of the site. If you have the time, we recommend that you continue to dive deeper into SQL!

If you need further details, it's also recommended that you read the documentation for the specific database that you are using, especially since each database has its own set of features and optimizations.

If you have any suggestions on how to make the site better, you can get in touch using one of the links in the footer below.

And if you found the lessons useful, please consider donating (\$4) via Paypal to support our site. Your contribution will help keep the servers running and allow us to improve and add even more material in the future.