

Table	e: Movies					
ld	Title	Director	Year	Length_minutes		Exercise 2 — Tasks
1	Toy Story	John Lasseter	1995	81		
2	A Bug's Life	John Lasseter	1998	95		1. Find the movie with a row id of 6 ✓
3	Toy Story 2	John Lasseter	1999	93		2. Find the movies released in the year's between 2000 and 2010 ✓
4	Monsters, Inc.	Pete Docter	2001	92		3. Find the movies not released in the year s
5	Finding Nemo	Andrew Stanton	2003	107		between 2000 and 2010 ✓
						 Find the first 5 Pixar movies and their release year ✓
SE	ELECT * FROM movies	where id<6				Stuck? Read this tasks Solution . Solve all tasks to continue to the next lesson.
					RESET	Continue >

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

AND/UR ..., Find SQLBolt useful? Please consider

) w			Year	Length_minutes	Exercise 3 — Tasks
, ,,	VALL-E	Andrew Stanton	2008	104	1. Find all the Toy Story movies ✓
37 W	VALL-G	Brenda Chapman	2042	97	 Find all the movies directed by John Lassete
					 Find all the movies (and director) not directed by John Lasseter √
					4. Find all the WALL-* movies ✓
SELEC	CT * FROM m	ovies where title like	'WALL-%'		Stuck? Read this task's Solution . Solve all tasks to continue to the next lesson.

Table: Movies Title Exercise 4 - Tasks A Bug's Life 1. List all directors of Pixar movies Brave (alphabetically), without duplicates ✓ Cars 2. List the last four Pixar movies released (ordered from most recent to least) ✓ Cars 2 3. List the first five Pixar movies sorted Finding Nemo 4. List the next five Pixar movies sorted alphabetically 🗸 select title from movies order by title asc limit 5; Stuck? Read this task's Solution. Solve all tasks to continue to the next lesson Continue >

Table: North_american_cities

City	Country	Population	Latitude	Longitude	
Guadalajara	Mexico	1500800	20.659699	-103.349609	
Toronto	Canada	2795060	43.653226	-79.383184	
Houston	United States	2195914	29.760427	-95.369803	
New York	United States	8405837	40.712784	-74.005941	
Philadelphia	United States	1553165	39.952584	-75.165222	
Havana	Cuba	2106146	23.05407	-82.345189	
Mexico City	Mexico	8555500	19.432608	-99.133208	
Phoenix	United States	1513367	33.448377	-112.074037	
Los Angeles	United States	3884307	34.052234	-118.243685	
Incomplete SQL query	Mexico	1742000	19.601841	-99.050674	

select city, population from north_american_cities
where countrylike "United States" order by population DESC
limit 2 offset 2;

Review 1 – Tasks

- List all the Canadian cities and their populations √
- 2. Order all the cities in the United States by their latitude from north to south $\ensuremath{\checkmark}$
- 3. List all the cities west of Chicago, ordered from west to east $\ \ \checkmark$
- 4. List the two largest cities in Mexico (by population) $\ensuremath{\checkmark}$
- 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.

ESET

Continue >

Query Results

Title	Domestic_sales	International_sales
Finding Nemo	380843261	555900000
Monsters University	268492764	475066843
Ratatouille	206445654	417277164
Cars 2	191452396	368400000
The Incredibles	261441092	370001000
WALL-E	223808164	297503696
Toy Story 3	415004880	648167031
Up	293004164	438338580
A Bug's Life	162798565	200600000
Brave	237283207	301700000

select title, domestic_sales, international_sales
from movies join boxoffice on movies.id = boxoffice.movie_id
where international_sales > domestic_sales;

 ${\bf Exercise~6-Tasks}$

- Find the domestic and international sales for each movie √
- 2. Show the sales numbers for each movie that did better internationally rather than domestically $\ensuremath{\checkmark}$
- 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 >

RESET

New COLLEGE TO OUTER TOWN

Building_name	Role		Exercise 7 – Tasks
le	Engineer		Find the list of all buildings that have
le	Manager		employees √
1w			2. Find the list of all buildings and their
2e			capacity ✓
2w	Artist		3. List all buildings and the distinct employee roles in each building (including empty
2w	v Manager		buildings) ✓
<pre>select distinct building_name, left join employees bn building</pre>			Stuck? Read this task's Solution .
	- •		Solve all tasks to continue to the next lesson.

Query Results

Name Role
Yancy I. Engineer
Oliver P. Artist

Select name, role from employees WHERE building is null;

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

Continue →

_	D 11
Query	Results

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

Exercise 9 - Tasks

- 1. List all movies and their combined sales in millions of dollars $\ \ \checkmark$
- 2. List all movies and their ratings in percent $\ensuremath{\checkmark}$
- 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.

RESET

Continue :

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.

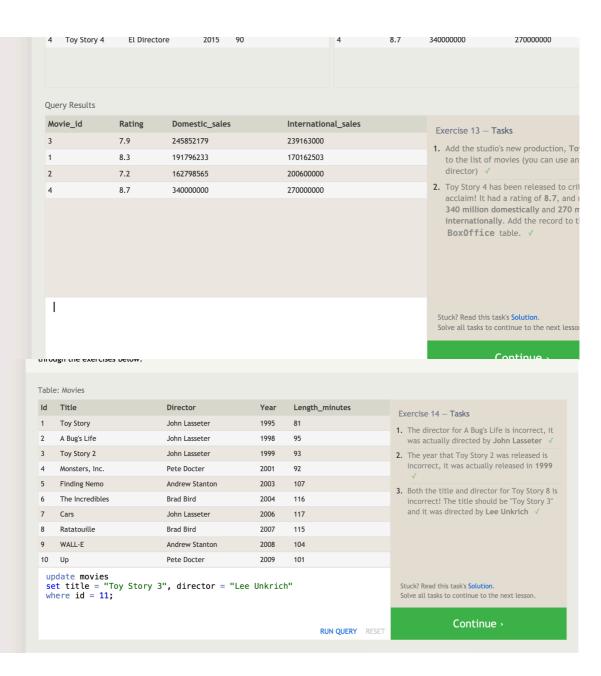
Table: Employees

Table: Employees			
Building	Sum(Years_employed)		Exercise 10 — Tasks
1e	29		Find the longest time that an employee has
2w	36		been at the studio ✓
			2. For each role, find the average number of years employed by employees in that role $\ensuremath{\checkmark}$
			3. Find the total number of employee years worked in each building ✓
select building from employees group by buildi	g, sum(years_employed) ing;		Stuck? Read this task's Solution . Solve all tasks to continue to the next lesson.
		RESET	Continue ›

Table: Employee

Table: Employees			
Role	SUM(Years_employed)		Exercise 11 — Tasks
Engineer	17		Find the number of Artists in the studio (without a HAVING clause) √
			2. Find the number of Employees of each role in the studio ✓
			3. Find the total number of years employed by all Engineers ✓
select role, s group by role having role =	<pre>SUM(years_employed)from employees "Engineer";</pre>		Stuck? Read this task's Solution . Solve all tasks to continue to the next lesson.
		RESET	Continue ·

Find SOI Rolt useful? Please consider 370001000 Next - SOI Lesson 12: Order of execution of a Ouerv 6 The Incredibles Brad Bird 2004 116 261441092 Query Results Director SUM(Domestic_sales + International_sales)
Andrew Stanton 1458055121
Brad Bird 1255164910 Exercise 12 — Tasks 1. Find the number of movies each director has Brenda Chapman 538983207 2. Find the total domestic and international sales that can be attributed to each director 743559607 Dan Scanlon 2232208025 Lee Unkrich 1063171911 Pete Docter 1294159000 select director, SUM(domestic_sales + international_sales)
from movies inner join boxoffice bn movies.id = boxoffice.movie_id
group by director; Stuck? Read this task's **Solution**.
Solve all tasks to continue to the next lesson. Continue >



Exercise

The database needs to be cleaned up a little bit, so try and delete a few rows in the tasks below.

-				
Ιa	h	6.	MO	vies

Id	Title	Director	Year	Length_minutes	
7	Cars	John Lasseter	2006	117	1
8	Ratatouille	Brad Bird	2007	115	'
10	Up	Pete Docter	2009	101	
11	Toy Story 3	Lee Unkrich	2010	103	2
12	Cars 2	John Lasseter	2011	120	
13	Brave	Brenda Chapman	2012	102	
14	Monsters University	Dan Scanlon	2013	110	

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.

delete from movies
where director = "Andrew Stanton";

Stuck? Read this task's **Solution**.

Solve all tasks to continue to the next lesson.

RUN QUERY RESET

Continue >

Exercise

In this exercise, you'll need to create a new table for us to insert some new rows into.

Table: Database

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

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. ✓

 $\label{lem:create_count_int} \begin{subarray}{ll} create table database (name text, version float, download_count int) | \\ \end{subarray}$

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

RUN QUERY RESET

Continue >

Our exercises use an implementation that only support adding new columns, so give that a try below.

Table: Movies

Id	Title	Director	Year	Length_minutes	Aspect_ratio	Language
1	Toy Story	John Lasseter	1995	81	2.39	english
2	A Bug's Life	John Lasseter	1998	95	2.39	english
3	Toy Story 2	John Lasseter	1999	93	2.39	english
4	Monsters, Inc.	Pete Docter	2001	92	2.39	english
5	Finding Nemo	Andrew Stanton	2003	107	2.39	english
6	The Incredibles	Brad Bird	2004	116	2.39	english
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

Exercise 17 - Tasks

- Add a column named Aspect_ratio with a FLOAT data type to store the aspect-ratio each movie was released in. √
- 2. Add another column named Language with a TEXT data type to store the language that the movie was released in. Ensure that the default for this language is English. ✓

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

Continue >

RUN QUERY RESET

Query F							
Query F							
	Results						
Id	Title	Director	Year	Length_minutes			Exercise 18 — Tasks
							We've sadly reached the end of our lesser lets clean up by removing the Movies ta
							2. And drop the BoxOffice table as well $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
drop	p table b o	oxoffice;					Stuck? Read this task's Solution . Solve all tasks to continue to the next lesson.
					RUN QUERY	RESET	Continue >