

SQLBolt - Learn SQL - SQL Lesson X +

← → C https://sqlbolt.com/lesson/select\_queries\_introduction

Apps Gmail YouTube Maps Coursera-certification GitHub Array.prototype.filter... TCS National Qualif... Selenium WebDrive...

Reading list

Table: Movies

Title
Toy Story
A Bug's Life
Toy Story 2
Monsters, Inc.
Finding Nemo
The Incredibles
Cars
Ratatouille
WALL-E
Up

```
SELECT title| FROM movies;
```

Exercise 1 — Tasks

1. Find the **title** of each film ✓
2. Find the **director** of each film
3. Find the **title** and **director** of each film
4. Find the **title** and **year** of each film
5. Find **all** the information about each film

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

RESET

Finish above Tasks

Type here to search

O VS Code Edge Microsoft Store Mail File Explorer Google Chrome

Cloud 30°C ENG 20:58:11 12-06-2021

SQLBolt - Learn SQL - SQL Lesson X +

← → C https://sqlbolt.com/lesson/select\_queries\_introduction

Apps Gmail YouTube Maps Coursera-certification GitHub Array.prototype.filter... TCS National Qualif... Selenium WebDrive...

Reading list

Table: Movies

Director
John Lasseter
John Lasseter
John Lasseter
Pete Docter
Andrew Stanton
Brad Bird
John Lasseter
Brad Bird
Andrew Stanton
Pete Docter

```
SELECT director FROM movies;
```

Exercise 1 — Tasks

1. Find the title of each film ✓
2. Find the director of each film ✓
3. Find the title and director of each film
4. Find the title and year of each film
5. Find all the information about each film

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

Finish above Tasks

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Apps Gmail YouTube Maps Coursera-certification GitHub Array.prototype.filter() TCS National Qualif... Selenium WebDrive... Reading list

Table: Movies

Title	Director
Toy Story	John Lasseter
A Bug's Life	John Lasseter
Toy Story 2	John Lasseter
Monsters, Inc.	Pete Docter
Finding Nemo	Andrew Stanton
The Incredibles	Brad Bird
Cars	John Lasseter
Ratatouille	Brad Bird
WALL-E	Andrew Stanton
Up	Pete Docter

```
SELECT title,director FROM movies;
```

Exercise 1 — Tasks

1. Find the `title` of each film ✓
2. Find the `director` of each film ✓
3. Find the `title` and `director` of each film ✓
4. Find the `title` and `year` of each film
5. Find `all` the information about each film

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

Finish above Tasks

Type here to search

O & VS Code Edge Microsoft Store Mail File Google Chrome G Cloud 29°C ENG 12-06-2021 21:01:11

Table: Movies

Title	Year
Toy Story	1995
A Bug's Life	1998
Toy Story 2	1999
Monsters, Inc.	2001
Finding Nemo	2003
The Incredibles	2004
Cars	2006
Ratatouille	2007
WALL-E	2008
Up	2009

```
SELECT title,year FROM movies;
```

#### Exercise 1 — Tasks

1. Find the **title** of each film ✓
2. Find the **director** of each film ✓
3. Find the **title** and **director** of each film ✓
4. Find the **title** and **year** of each film ✓
5. Find all the information about each film

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

RESET

Finish above Tasks

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
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

```
SELECT *| FROM movies;
```

#### Exercise 1 — Tasks

1. Find the `title` of each film ✓
2. Find the `director` of each film ✓
3. Find the `title` and `director` of each film ✓
4. Find the `title` and `year` of each film ✓
5. Find `all` the information about each film ✓

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

RESET

Continue ›

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
6	The Incredibles	Brad Bird	2004	116

Exercise 2 — Tasks

1. Find the movie with a row **id** of 6 ✓
2. Find the movies released in the years between 2000 and 2010
3. Find the movies **not** released in the years between 2000 and 2010
4. Find the first 5 Pixar movies and their release **year**

```
SELECT * FROM movies where id=6;
```

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

[Finish above Tasks](#)

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
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
11	Toy Story 3	Lee Unkrich	2010	103

```
SELECT * FROM movies WHERE year BETWEEN 2000 AND 2010;
```

I

RESET

#### Exercise 2 — Tasks

1. Find the movie with a row **id** of 6 ✓
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**

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

Finish above Tasks

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
12	Cars 2	John Lasseter	2011	120
13	Brave	Brenda Chapman	2012	102
14	Monsters University	Dan Scanlon	2013	110

```
SELECT * FROM movies where year NOT between 2000 and 2010; I
```

RESET

## Exercise 2 — Tasks

- Find the movie with a row **id** of 6 ✓
- Find the movies released in the **year**s between 2000 and 2010 ✓
- Find the movies **not** released in the **year**s between 2000 and 2010 ✓
- 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.

Finish above Tasks

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
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

```
SELECT * FROM movies LIMIT 5;
```

I

RESET

## Exercise 2 — Tasks

1. Find the movie with a row `id` of 6 ✓
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` ✓

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

**Continue ›**

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
1	Toy Story	John Lasseter	1995	81
3	Toy Story 2	John Lasseter	1999	93
11	Toy Story 3	Lee Unkrich	2010	103

```
SELECT * FROM movies where Title LIKE "Toy Story%";
```

#### Exercise 3 — Tasks

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

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

RESET

Finish above Tasks

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
7	Cars	John Lasseter	2006	117
12	Cars 2	John Lasseter	2011	120

```
SELECT * FROM movies where Director LIKE "John Lasseter";
```

#### Exercise 3 — Tasks

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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

RESET

Finish above Tasks

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
4	Monsters, Inc.	Pete Docter	2001	92
5	Finding Nemo	Andrew Stanton	2003	107
6	The Incredibles	Brad Bird	2004	116
8	Ratatouille	Brad Bird	2007	115
9	WALL-E	Andrew Stanton	2008	104
10	Up	Pete Docter	2009	101
11	Toy Story 3	Lee Unkrich	2010	103
13	Brave	Brenda Chapman	2012	102
14	Monsters University	Dan Scanlon	2013	110
87	WALL-G	Brenda Chapman	2042	97

```
SELECT * FROM movies WHERE Director NOT LIKE "John Lasseter";
```

#### Exercise 3 — Tasks

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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

[Finish above Tasks](#)

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
9	WALL-E	Andrew Stanton	2008	104
87	WALL-G	Brenda Chapman	2042	97

```
SELECT * FROM movies where Title LIKE "%WALL-%";
```

#### Exercise 3 — Tasks

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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

**Continue >**

Table: Movies

Director
Andrew Stanton
Brad Bird
Brenda Chapman
Dan Scanlon
John Lasseter
Lee Unkrich
Pete Docter

```
SELECT DISTINCT director FROM movies order by Director;
```

#### Exercise 4 — Tasks

1. List all directors of Pixar movies (alphabetically), without duplicates ✓
2. List the last four Pixar movies released (ordered from most recent to least)
3. List the **first** five Pixar movies sorted alphabetically
4. List the **next** five Pixar movies sorted alphabetically

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
1	Monsters University	Dan Scanlon	2013	110
7	Brave	Brenda Chapman	2012	102
13	Cars 2	John Lasseter	2011	120
11	Toy Story 3	Lee Unkrich	2010	103

#### Exercise 4 — Tasks

1. List all directors of Pixar movies (alphabetically), without duplicates ✓
2. List the last four Pixar movies released (ordered from most recent to least) ✓
3. List the **first** five Pixar movies sorted alphabetically
4. List the **next** five Pixar movies sorted alphabetically

```
SELECT * FROM movies order by year Desc limit 4 ;
```

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

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Finish above Tasks

Table: Movies

Title
A Bug's Life
Brave
Cars
Cars 2
Finding Nemo

```
SELECT title FROM movies ORDER BY title ASC Limit 5;
```

#### Exercise 4 — Tasks

1. List all directors of Pixar movies (alphabetically), without duplicates ✓
2. List the last four Pixar movies released (ordered from most recent to least) ✓
3. List the **first** five Pixar movies sorted alphabetically ✓
4. List the **next** five Pixar movies sorted alphabetically

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

[Finish above Tasks](#)

Table: Movies

Title
Monsters University
Monsters, Inc.
Ratatouille
The Incredibles
Toy Story

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

#### Exercise 4 — Tasks

1. List all directors of Pixar movies (alphabetically), without duplicates ✓
2. List the last four Pixar movies released (ordered from most recent to least) ✓
3. List the **first** five Pixar movies sorted alphabetically ✓
4. List the **next** five Pixar movies sorted alphabetically ✓

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
Toronto	Canada	2795060	43.653226	-79.383184
Montreal	Canada	1717767	45.501689	-73.567256

#### Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south
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 * FROM north_american_cities where Country="Canada" ;
```

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

Table: North\_american\_cities

City	Country	Population	Latitude	Longitude
Chicago	United States	2718782	41.878114	-87.629798
New York	United States	8405837	40.712784	-74.005941
Philadelphia	United States	1553165	39.952584	-75.165222
Los Angeles	United States	3884307	34.052234	-118.243685
Phoenix	United States	1513367	33.448377	-112.074037
Houston	United States	2195914	29.760427	-95.369803

```
SELECT * FROM north_american_cities where country="United States" order by Latitude DESC;
```

#### Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south ✓
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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

[Finish above Tasks](#)

lesson to learn about queries that span multiple tables.

Table: North\_american\_cities

City	Longitude
Los Angeles	-118.243685
Phoenix	-112.074037
Guadalajara	-103.349609
Mexico City	-99.133208
Ecatepec de Morelos	-99.050674
Houston	-95.369803

```
SELECT city, longitude FROM north_american_cities WHERE longitude < -87  
.629798 ORDER BY longitude ASC;
```

#### Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south ✓
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

Stuck? Read this task's Solution.

Solve all tasks to continue to the next lesson.

Table: North\_american\_cities

City	Country	Population	Latitude	Longitude
Mexico City	Mexico	8555500	19.432608	-99.133208
Ecatepec de Morelos	Mexico	1742000	19.601841	-99.050674

```
SELECT * FROM north_american_cities where country="Mexico" order by population desc limit 2 ;
```

#### Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south ✓
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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

Table: North\_american\_cities

City	Population
Chicago	2718782
Houston	2195914



```
SELECT city,population FROM north_american_cities where country="United States" order by population desc limit 2 offset 2;
```

#### Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south ✓
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 ✓

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

**Continue >**

## Query Results

Monsters University	268492764	475066843
Ratatouille	206445654	417277164
Cars 2	191452396	368400000
Toy Story 2	245852179	239163000
The Incredibles	261441092	370001000
WALL-E	223808164	297503696
Toy Story 3	415004880	648167031
Toy Story	191796233	170162503
Cars	244082982	217900167
Up	293004164	438338580
Monsters, Inc.	289916256	272900000

```
SELECT title,Domestic_sales,international_sales FROM movies join Boxoffice  
on Id= movie_id;
```

## Exercise 6 — Tasks

1. Find the domestic and international sales for each movie ✓
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.

RESET

Finish above Tasks

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 Id= movie_id Where Domestic_sales<International_sales;
```

Exercise 6 — Tasks

- Find the domestic and international sales for each movie ✓
- Show the sales numbers for each movie that did better internationally rather than domestically ✓
- 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.

Finish above Tasks

## Exercise 6 — Tasks

1. Find the domestic and international sales for each movie ✓
  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.

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	Cars	Lee Unkrich	2006	117	2	8.5	222200164	207502000

## Query Results

### Title

WALL-E

Toy Story 3

Toy Story

Up



Finding Nemo

Monsters, Inc.

Ratatouille

The Incredibles

Toy Story 2

Monsters University

```
SELECT title FROM movies join Boxoffice on Id= movie_id order by rating desc  
;
```

### Exercise 6 — Tasks

1. Find the domestic and international sales for each movie ✓
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](#).

## Query Results

### Building

1e

2w



```
SELECT distinct Building FROM employees;
```

### 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)

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

[Finish all tasks](#) [Tools](#)

## Query Results

Building_name	Capacity
1e	24
1w	32
2e	16
2w	20

```
SELECT * FROM buildings;
```

### 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)

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

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



```
SELECT DISTINCT building_name, role FROM buildings LEFT JOIN employees  
ON building_name = building;
```

RESET

#### 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) ✓

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

Continue ›

## Query Results

Name	Role
Yancy I.	Engineer
Oliver P.	Artist

```
SELECT name,role FROM employees where building IS NULL;
```

## Exercise 8 — Tasks

1. 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 employees

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

Engineer	Yancy I.	0
Artist	Oliver P.	0

### Query Results

#### Building\_name

1w

2e

#### Exercise 8 — Tasks

1. 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 employees ✓

```
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.

Engineer	Yancy I.	0
Artist	Oliver P.	0

### Query Results

#### Building\_name

1w

2e

#### Exercise 8 — Tasks

1. 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 employees ✓

```
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.

## 7. Go

Data Selection

2006 117

0

0.5

22288164

207502606

## Query Results

Title	Gross_sales_millions
Finding Nemo	936.743261
Monsters University	743.559607
Ratatouille	623.722818
Cars 2	559.852396
Toy Story 2	485.015179
The Incredibles	631.442092
WALL-E	521.31186
Toy Story 3	1063.171911
Toy Story	361.958736
Cars	461.983149

```
SELECT title, (domestic_sales + international_sales) / 1000000 AS  
gross_sales_millions FROM movies JOIN boxoffice ON movies.id = boxoffice  
.movie_id;
```

## 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



Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

**Title**

Finding Nemo

**Rating**

82

Monsters University

74

Ratatouille

80

Cars 2

64

Toy Story 2

79

The Incredibles

80

WALL-E

85

Toy Story 3

84

Toy Story

83

Cars

72

```
SELECT Title,(rating*10) as rating from movies join Boxoffice on id=Movie_id
```

**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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

## Title

The Incredibles

WALL-E

Toy Story 3

Cars

A Bug's Life

Brave

```
SELECT title from movies join boxoffice on id=movie_id where Year%2=0;
```

## 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 ✓

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

**Continue >**

Table: Employees

**Max(Years\_employed)**

9

```
SELECT max(years_employed) FROM employees;
```

**Exercise 10 — Tasks**

1. Find the longest time that an employee has been 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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

Table: Employees

Role	Avg(Years_employed)
Artist	6
Engineer	3.4
Manager	6

#### Exercise 10 — Tasks

1. Find the longest time that an employee has been 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 role,avg(years_employed) FROM employees group by role; ↴
```

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

Table: Employees

Building	Sum(Years_employed)
1e	29
2w	36

```
SELECT building,sum(years_employed) FROM employees group by building;
```

#### Exercise 10 — Tasks

1. Find the longest time that an employee has been 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 ✓

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.

[Continue >](#)

Table: Employees

### Count (\*)

5

```
SELECT count (*) FROM employees where role="Artist"
```

### Exercise 11 — Tasks

1. 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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

Table: Employees

Role	Count(*)
Artist	5
Engineer	5
Manager	3

```
SELECT role, count(*) FROM employees group by role;
```

#### Exercise 11 — Tasks

1. 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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

TABLE: EMPLOYEES

Role	Name	Building	Years_employed	Sum(Years_employed)
Engineer	Malcom S.	1e	1	17

```
SELECT *,sum(years_employed) FROM employees where role="Engineer";
```

### Exercise 11 — Tasks

1. 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 ✓

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

[Continue >](#)

## Query Results

Director	Count(*)
Andrew Stanton	2
Brad Bird	2
Brenda Chapman	1
Dan Scanlon	1
John Lasseter	5
Lee Unkrich	1
Pete Docter	2

```
SELECT director, count(*) FROM movies group by Director;
```

### Exercise 12 — Tasks

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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

## Query Results

Director	Sum(Domestic_sales+International_sales)
Andrew Stanton	1458055121
Brad Bird	1255164910
Brenda Chapman	538983207
Dan Scanlon	743559607
John Lasseter	2232208025
Lee Unkrich	1063171911
Pete Docter	1294159000

```
SELECT director,sum(Domestic_sales+International_sales) FROM movies join Boxoffice on id=Movie_id group by Director;
```

## Exercise 12 — Tasks

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

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

Continues

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
15	Toy Story 4	Lee Unkrich	2019	100



```
Insert INTO Movies values(15,"Toy Story 4","Lee Unkrich",2019,100);
```

RUN QUERY    RESET

#### Exercise 13 — Tasks

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

Finish above Tasks

## Query Results

Movie_id	Rating	Domestic_sales	International_sales
3	7.9	245852179	239163000
1	8.3	191796233	170162503
2	7.2	162798565	200600000
15	8.7	370000000	270000000

```
Insert INTO Boxoffice values(15,8.7,370000000,270000000);
```

### Exercise 13 — Tasks

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

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1899	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 director="John Lasseter" where title="A Bug's Life"
```

## 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.

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
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 year=1999 where title like "T%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.

Table: Movies

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
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

```
update movies set title="Toy Story 3", director="Lee Unkrich" where title = "Toy Story 8"
```

#### 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.

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</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
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

```
delete from movies where year<2005|
```

#### 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.



Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
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

```
delete from movies where director="Andrew Stanton"
```

#### 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. ✓

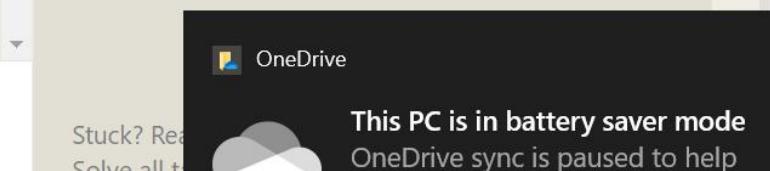


Table: Database

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. ✓

```
create table Database(Name varchar(20), Version Number(20), download_count  
Number(20));|
```

Stuck? Read this task's [Solution](#).

Solve all tasks to continue to the next lesson.

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>	<b>Aspect_ratio</b>	<b>Aspect_ratio</b>
1	Toy Story	John Lasseter	1995	81	10	2.39
2	A Bug's Life	John Lasseter	1998	95	10	2.39
3	Toy Story 2	John Lasseter	1999	93	10	2.39
4	Monsters, Inc.	Pete Docter	2001	92	10	2.39
5	Finding Nemo	Andrew Stanton	2003	107	10	2.39
6	The Incredibles	Brad Bird	2004	116	10	2.39
7	Cars	John Lasseter	2006	117	10	2.39
8	Ratatouille	Brad Bird	2007	115	10	2.39
9	WALL-E	Andrew Stanton	2008	104	10	2.39
10	Up	Pete Docter	2009	101	10	2.39

```
ALTER TABLE Movies
ADD COLUMN Aspect_ratio FLOAT DEFAULT 2.39;
```

## Exercise 17 — Tasks

1. 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.

Table: Movies

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>	<b>Aspect_ratio</b>	<b>Aspect_ratio</b>	<b>Language</b>
1	Toy Story	John Lasseter	1995	81	10	2.39	ENGLISH
2	A Bug's Life	John Lasseter	1998	95	10	2.39	ENGLISH
3	Toy Story 2	John Lasseter	1999	93	10	2.39	ENGLISH
4	Monsters, Inc.	Pete Docter	2001	92	10	2.39	ENGLISH
5	Finding Nemo	Andrew Stanton	2003	107	10	2.39	ENGLISH
6	The Incredibles	Brad Bird	2004	116	10	2.39	ENGLISH
7	Cars	John Lasseter	2006	117	10	2.39	ENGLISH
8	Ratatouille	Brad Bird	2007	115	10	2.39	ENGLISH
9	WALL-E	Andrew Stanton	2008	104	10	2.39	ENGLISH

```
ALTER TABLE Movies
ADD COLUMN Language TEXT DEFAULT "ENGLISH";
```

## Exercise 17 — Tasks

1. 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 >](#)

## Query Results

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>

```
drop table movies
```

## 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

Stuck? Read this task's [Solution](#)

## Query Results

<b>Id</b>	<b>Title</b>	<b>Director</b>	<b>Year</b>	<b>Length_minutes</b>
<p>Table dropped</p>				
<pre>drop table BOXOFFICE</pre>				

### 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 ✓

Stuck? Read this task's [Solution](#).  
Solve all tasks to continue to the next lesson.



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## SQL Lesson X: To infinity and beyond!



You've finished the tutorial!