

Table: Movies

Exercise 1 — Tasks

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

Continue >

Using the right constraints, find the information we need from the **Movies** table for each task below.

Table: Movies

Id	Title	Director	Year	Length_minutes
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
where id <= 5;
```

RESET

Exercise 2 — Tasks

1. Find the movie with a row **id** of 5 ✓
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** ✓

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Table: Movies

Id	Title	Director	Year	Length_minutes
2	Monsters University	Dan Scanlon	2013	110
4	Monsters, Inc.	Pete Docter	2001	92
8	Ratatouille	Brad Bird	2007	115
6	The Incredibles	Brad Bird	2004	116
11	Toy Story	John Lasseter	1995	81

```
SELECT * FROM movies
order by title
limit 5 offset 5;
```

RESET

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](#).
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Next — [SQL Review: Simple SELECT Queries](#)
Previous — [SQL Lesson 3: Queries with constraints \(Pt. 2\)](#)

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Table: North_american_cities

City	Country	Population	Latitude	Longitude
Chicago	United States	2718782	41.878114	-87.629798
Houston	United States	2195914	29.760427	-95.369803

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

RESET

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 ✓

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Next — SQL Lesson 6: Multi-table queries with JOINS
Previous — SQL Lesson 4: Filtering and sorting Query results

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Role	Name	Building	Years_employed
------	------	----------	----------------

```
SELECT * FROM employees;
```

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 ✓

Continue ›

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

Id	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

```
SELECT * FROM movies
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 »

metrics about the teams. Go ahead and give it a shot.

Table: Employees

Role	Name	Building	Years_employed	Sum(Years_employed)
Manager	Shirlee M.	1e	3	29
Manager	Dana O.	2w	6	36

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

RESET

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. ✓

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Solve all tasks to continue to the next lesson.

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different clauses you want to apply for each task.

Table: Employees

Role	Name	Building	Years_employed
Engineer	Becky A.	1e	4
Engineer	Dan B.	1e	2
Engineer	Sharon F.	1e	6
Engineer	Dan M.	1e	4
Engineer	Malcom S.	1e	1
Artist	Tyler S.	2w	2
Artist	Sherman D.	2w	8
Artist	Jakob J.	2w	6
Artist	Lillia A.	2w	7
Artist	Brandon J.	2w	7

`SELECT * FROM employees;`

RESET

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 ✓

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Solve all tasks to continue to the next lesson.

Continue >

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Id	Title	Director	Year	Length_minutes
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

RUN QUERY RESET

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** ✓

Continue ›

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

```
create table database(  
  Name text,  
  Version float,  
  Download_count integer  
);
```

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. ✓

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

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RUN QUERY RESET

Type here to search

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Table: Movies

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

```
Alter table movies
ADD Language TEXT
DEFAULT English;
```

[RUN QUERY](#) [RESET](#)

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**. ✓

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Next – [SQL Lesson 18: Dropping tables](#)

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