

EX-01

SQLBolt - Learn SQL - SQL Lesson X

https://sqlbolt.com/lesson/select_queries_introduction

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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
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.

Continue ➔

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EX-02

SQLBolt - Learn SQL - SQL Lesson X

https://sqlbolt.com/lesson/select_queries_with_constraints

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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

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.

SELECT *
FROM movies
where year <=2003;

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Next – [SQL Lesson 3: Queries with constraints \(Pt. 2\)](#)

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EX-03

Table: Movies

Id	Title	Director	Year	Length_minutes
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.

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EX-04

Table: Movies

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

```
SELECT *  
FROM movies  
ORDER BY Title  
LIMIT 5,5;
```

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.

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EX-05

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 2,2;
```

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.

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EX-06

Query Results

Title	Rating
WALL-E	8.5
Toy Story 3	8.4
Toy Story	8.3
Up	8.3
Finding Nemo	8.2
Monsters, Inc.	8.1
Ratatouille	8
The Incredibles	8
Toy Story 2	7.9
Monsters University	7.4

```
SELECT movies.Title, boxoffice.Rating
  FROM movies
  INNER JOIN boxoffice
  ON movies.Id=boxoffice.movie_id
 ORDER BY boxoffice.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](#).
Solve all tasks to continue to the next lesson.

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EX-07

SQLBolt - Learn SQL - SQL Lesson X

https://sqlbolt.com/lesson/select_queries_with_outer_joins

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Query Results

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

Exercise 7 — Tasks

- Find the list of all buildings that have employees ✓
- Find the list of all buildings and their capacity ✓
- 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 >

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EX-08

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 ✓

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

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```
SELECT DISTINCT buildings.building_name
FROM buildings
LEFT JOIN employees
ON buildings.building_name = employees.building
WHERE employees.role IS NULL;
```

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EX-09

SQLBolt - Learn SQL - SQL Lesson X

https://sqlbolt.com/lesson/select_queries_with_expressions

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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

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 >

SELECT *
FROM movies
WHERE year%2=0;

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EX-10

Table: Employees

Building	Total_years_employed
1e	29
2w	36

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.

SELECT DISTINCT building, SUM(Years_employed) as Total_years_employed
FROM employees
GROUP BY building;

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EX-11

SQLBolt - Learn SQL - SQL Lesson X G distinct - Google Search

https://sqlbolt.com/lesson/select_queries_with_aggregates_pt_2

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Table: Employees

Role	Years
Engineer	17

Exercise 11 — Tasks

- Find the number of Artists in the studio (without a **HAVING** clause) ✓
- Find the number of Employees of each role in the studio ✓
- Find the total number of years employed by all Engineers ✓

```
-- SELECT * from employees
SELECT role, SUM(Years_employed) as Years
FROM employees
WHERE Role='Engineer';
```

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

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EX-12

Query Results

Director	Total
Andrew Stanton	1458055121
Brad Bird	1255164910
Brenda Chapman	538983207
Dan Scanlon	743559607
John Lasseter	2232208025
Lee Unkrich	1063171911
Pete Docter	1294159000

```
-- SELECT * FROM movies;
SELECT movies.Director, SUM(boxoffice.domestic_sales+boxoffice.international_sales) as Total
FROM movies
INNER JOIN boxoffice
ON movies.id=boxoffice.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.

RESET Continue >

EX-13

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	340000000	270000000

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.

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EX-14

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

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

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.

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EX-15

Table: Movies

Id	Title	Director	Year	Length_minutes
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

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.

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

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EX-16

Table: Database

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

RUN QUERY RESET

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.

Continue >

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EX-17

Table: Movies

Id	Title	Director	Year	Length_minutes	Aspect_ratio	Language
1	Toy Story	John Lasseter	1995	81	16.9	English
2	A Bug's Life	John Lasseter	1998	95	16.9	English
3	Toy Story 2	John Lasseter	1999	93	16.9	English
4	Monsters, Inc.	Pete Docter	2001	92	16.9	English
5	Finding Nemo	Andrew Stanton	2003	107	16.9	English
6	The Incredibles	Brad Bird	2004	116	16.9	English
7	Cars	John Lasseter	2006	117	16.9	English
8	Ratatouille	Brad Bird	2007	115	16.9	English
9	WALL-E	Andrew Stanton	2008	104	16.9	English
New column		Pete Docter	2009	101	16.9	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**. ✓

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Solve all tasks to continue to the next lesson.

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EX-18

SQLBolt - Learn SQL - SQL Lesson X

https://sqlbolt.com/lesson/dropping_tables

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Query Results

Id	Title	Director	Year	Length_minutes

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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Next: SQL Lesson X: To infinity and beyond!

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EX-COMPLETED

Screenshot of a Firefox browser window showing the SQLBolt website at <https://sqlbolt.com/lesson/end>.

The page displays the SQLBolt logo and the text "Learn SQL with simple, interactive exercises." It features a graduation cap icon with a lightning bolt on it, indicating completion. The title "SQL Lesson X: To infinity and beyond!" is shown, along with the message "You've finished the tutorial!". A note expresses hope that the lessons have provided more experience with SQL and confidence in using it with own data. It also mentions future additions to the site.

At the bottom, the Windows taskbar shows various pinned icons and the system tray indicates the date and time as 9:01 AM on 06/07/2023.