

Database- Day -1: MySQL

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properties of each movie. To continue onto the next lesson, alter the query to find the exact information we need for each task.

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.

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Next – SQL Lesson 2: Queries with constraints (Pt. 1)
Previous – Introduction to SQL

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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

`SELECT * FROM movies order by year asc limit 0,5`

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** ✓

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Next – SQL Lesson 3: Queries with constraints (Pt. 2)
Previous – SQL Lesson 1: SELECT queries 101

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AND/OR --;

Table: Movies

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

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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Next — [SQL Lesson 4: Filtering and sorting Query results](#)
Previous — [SQL Lesson 2: Queries with constraints \(Pt. 1\)](#)

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Table: Movies

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

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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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

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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SELECT * from north_american_cities where Country='United States' order by population desc limit 2 offset 2;

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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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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

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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SELECT Title, Rating
FROM Boxoffice
INNER JOIN Movies
ON Boxoffice.Movie_id = Movies.id order by Boxoffice.rating desc;

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Next — SQL Lesson 7: OUTER JOINS
Previous — SQL Review: Simple SELECT Queries

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Query Results

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 = employees.building;
```

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) ✓

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Solve all tasks to continue to the next lesson.

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Next — SQL Lesson 8: A short note on NULLS
Previous — SQL Lesson 6: Multi-table queries with JOINS

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Artist Tylar S. 2w 2

Query Results

Building_name
1w
2e

```
SELECT DISTINCT building_name  
FROM buildings  
LEFT JOIN employees  
ON building_name = employees.building  
WHERE employees.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 ✓

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Next — SQL Lesson 9: Queries with expressions
Previous — SQL Lesson 7: OUTER JOINS

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6	The Incredibles	Brad Bird	2004	116	6	8	261441092	370001000
7	Cars	John Lasseter	2006	117	6	8	333000000	307500000

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
```

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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 ✓

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Previous – SQL Lesson 8: A short note on NULLS

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