Database – MySQL

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Batch: B34 WD English

Exercise

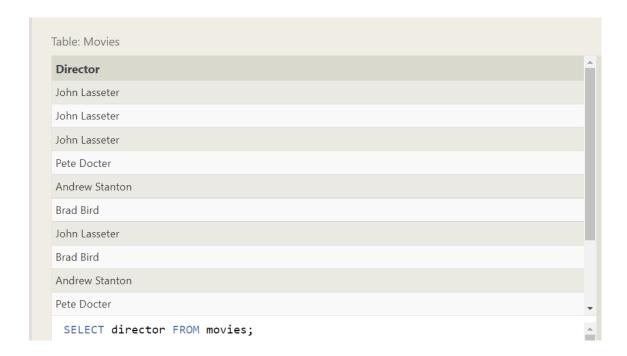
We will be using a database with data about some of Pixar's classic movies for most of our exercises. This first exercise will only involve the **Movies** table, and the default query below currently shows all the properties of each movie. To continue onto the next lesson, alter the query to find the exact information we need for each task.

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

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

4. Find the title and year of each film ✓

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

5. Find all the information about each film ✓

d	Title	Director	Year	Length_minutes	
	Toy Story	John Lasseter	1995	81	
	A Bug's Life	John Lasseter	1998	95	
}	Toy Story 2	John Lasseter	1999	93	
ļ	Monsters, Inc.	Pete Docter	2001	92	
)	Finding Nemo	Andrew Stanton	2003	107	
)	The Incredibles	Brad Bird	2004	116	
7	Cars	John Lasseter	2006	117	
3	Ratatouille	Brad Bird	2007	115	
)	WALL-E	Andrew Stanton	2008	104	
0	Up	Pete Docter	2009	101	

Exercise

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

Exercise 2 — Tasks

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

Id 1					
14	Title	Director	Year	Length_minutes	
6	The Incredibles	Brad Bird	2004	116	

SELECT * FROM movies where id=6;

3. Find the movies **not** released in the **year** s between 2000 and 2010 ✓

ld	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	
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;

4. Find the first 5 Pixar movies and their release year ✓

ld	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 limit 5;

Exercise

Here's the definition of a query with a **WHERE** clause again, go ahead and try and write some queries with the operators above to limit the results to the information we need in the tasks below.

Exercise 3 — Tasks

1. Find all the Toy Story movies ✓

Ta				

ld	Title	Director	Year	Length_minutes
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%";

2. Find all the movies directed by John Lasseter

d	Title	Director	Year	Length_minutes
	Toy Story	John Lasseter	1995	81
	A Bug's Life	John Lasseter	1998	95
	Toy Story 2	John Lasseter	1999	93
	Cars	John Lasseter	2006	117
2	Cars 2	John Lasseter	2011	120

SELECT * FROM movies where Director Like "%John Lasseter%";

3. Find all the movies (and director) not directed by John Lasseter ✓

Table	: Movies			
Id	Title	Director	Year	Length_minutes
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%";

4. Find all the WALL-* movies ✓

ld	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 4 — Tasks

1. List all directors of Pixar movies (alphabetically), without duplicates ✓

```
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 ASC;
```

2. List the last four Pixar movies released (ordered from most recent to least) ✓

Table: Movies Id Title Director Year Length_minutes Monsters University Dan Scanlon 2013 110 11 Brenda Chapman 8 Brave 2012 102 10 Cars 2 John Lasseter 2011 120 Lee Unkrich Toy Story 3 9 2010 103

SELECT * FROM movies order by year DESC limit 4;

3. List the **first** five Pixar movies sorted alphabetically ✓

Table: Movies Director ld Title Length_minutes Year John Lasseter 4 Toy Story 1995 81 1 A Bug's Life John Lasseter 1998 95 5 Toy Story 2 John Lasseter 1999 93 Monsters, Inc. Pete Docter 92 14 2001 12 Finding Nemo Andrew Stanton 2003 107

SELECT * FROM movies order by year ASC, Title ASC, year limit 5;

4. List the **next** five Pixar movies sorted alphabetically ✓

Title

Monsters University

Monsters, Inc.

Ratatouille

The Incredibles

Toy Story

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

Exercise

In the exercise below, you will be working with a different table. This table instead contains information about a few of the most populous cities of North America^[1] including their population and geo-spatial location in the world.

Did you know?

Positive latitudes correspond to the northern hemisphere, and positive longitudes correspond to the eastern hemisphere. Since North America is north of the equator and west of the prime meridian, all of the cities in the list have positive latitudes and negative longitudes.

Try and write some queries to find the information requested in the tasks you know. You may have to use a different combination of clauses in your query for each task. Once you're done, continue onto the next lesson to learn about queries that span multiple tables.

Review 1 — Tasks

1. List all the Canadian cities and their populations ✓

City	Population	
Toronto	2795060	
Montreal	1717767	

2. Order all the cities in the United States by their latitude from north to south ✓

City	Latitude	
Chicago	41.878114	
New York	40.712784	
Philadelphia	39.952584	
Los Angeles	34.052234	
Phoenix	33.448377	
Houston	29.760427	

3. List all the cities west of Chicago, ordered from west to east ✓

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_a .629798 ORDER BY longitude ASC;	merican_cities WHERE longitude < -87

4. List the two largest cities in Mexico (by population) ✓

Table: North_american_cities		
City	Population	4
Mexico City	8555500	
Ecatepec de Morelos	1742000	

SELECT city, population FROM north_american_cities WHERE country LIKE "Mexico" ORDER BY population DESC LIMIT 2;

5. List the third and fourth largest cities (by population) in the United States and their population √

Table: North_american_cities

City	Population
Chicago	2718782
Houston	2195914

SELECT city, population FROM north_american_cities WHERE country LIKE "United States" ORDER BY population DESC LIMIT 2 OFFSET 2;