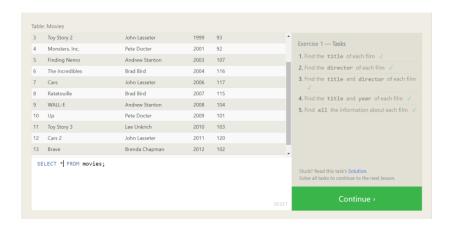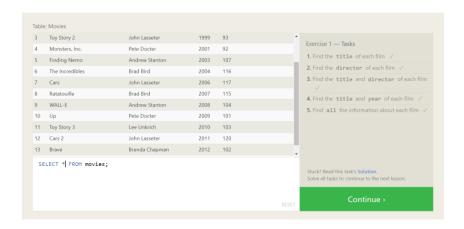# GUVI – DAY 33

MySQL Task

1. Exercise 1, *Select Queries 101*

2. Exercise 2, *Queries with constraints, pt. 1*

3. Exercise 3, *Queries with constraints pt. 2*

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 ✓

```
SELECT * FROM movies where title like "WALL-%";
```

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

RESET

4. Exercise 4, *Filtering and sorting Query results*

Table: Movies

Id	Title	Director	Year	Length_minutes
5	Monsters University	Dan Scanlon	2013	110
4	Monsters, Inc.	Pete Docter	2001	92
14	Ratatouille	Brad Bird	2007	115
12	The Incredibles	Brad Bird	2004	116
9	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 ✓

```
SELECT * from movies order by title limit 5 offset 5
```

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

RESET

5. Exercise 5, *Simple SELECT Queries*

Table: North_american_cities

City	Population
Chicago	2718782
Houston	2195914

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

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

RESET

6. Exercise 6, *Multi -table queries with JOINs*

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 m join Boxoffice b on m.Id = b.movie_id order by b
    .rating desc;
```

RESET

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.

Continue ›

7. Exercise 7, *OUTER JOINs*

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;
```

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 ›

8. Exercise 8, *A short note on NULLs*

Query Results

Building_name
1w
2e

```
select distinct building_name from buildings b left join employees e on e
    .building = b.building_name where building is null
```

RESET

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.

Continue ›

9. Exercise 9, *Queries with expressions*
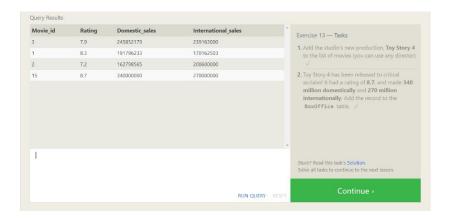

10. Exercise 10, *Queries with aggregates pt. 1*
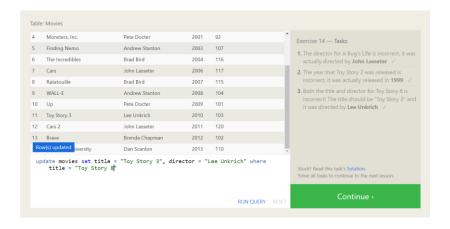

11. Exercise 11, *Queries with aggregates pt. 2*

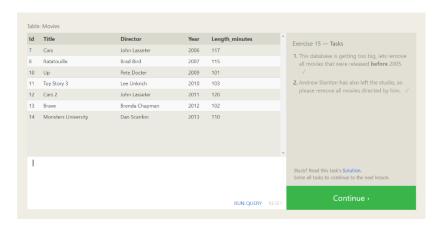## 12. Exercise 12, *Order of execution of a Query*

13. Exercise 13, *Inserting rows*
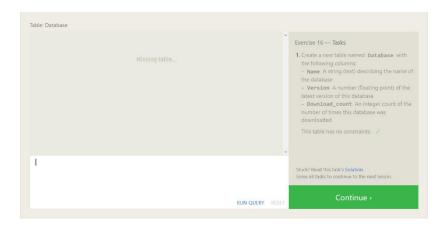

14. Exercise 14, *Updating rows*

15. Exercise 15, *Deleting rows*

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 ›

16. Exercise 16, *Creating tables*

Table: Database

Missing table...

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.

RUN QUERY   RESET

Continue ›

17. Exercise 17, *Altering tables*

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

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.

RUN QUERY   RESET

Continue ›

18. Exercise 18, *Dropping tables*

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.

RUN QUERY   RESET

Continue ›