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	2003	107

```
SELECT * FROM movies;
```

RESET

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 ›

Table: Movies

Title	Year
Toy Story	1995
A Bug's Life	1998
Toy Story 2	1999
Monsters, Inc.	2001
Finding Nemo	2003

```
SELECT title, year FROM
    movies
WHERE year <= 2003;
```

RESET

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.

Continue ›

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-_";
```

RESET

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.

Continue ›

Table: Movies

Title
Monsters University
Monsters, Inc.
Ratatouille
The Incredibles
Toy Story

```
SELECT title FROM movies
ORDER BY title ASC
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.
Solve all tasks to continue to the next lesson.

Continue ›

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;
```

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 ✓

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

Continue ›

Query Results

Ratatouille	8
The Incredibles	8
Toy Story 2	7.9
Monsters University	7.4
Cars	7.2
A Bug's Life	7.2
Brave	7.2
Cars 2	6.4

```
SELECT title, rating
FROM movies
  JOIN boxoffice
    ON movies.id =
        boxoffice.movie_id
ORDER BY 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 ›

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 =
       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 ›

Query Results

Building_name
1w
2e

```
SELECT DISTINCT
    building_name
FROM buildings
  LEFT JOIN employees
    ON building_name =
        building
WHERE role 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 ›

Query Results

Title	Year
A Bug's Life	1998
The Incredibles	2004
Cars	2006
WALL-E	2008
Toy Story 3	2010
Brave	2012

```
SELECT title, year
FROM movies
WHERE year % 2 = 0;
```

RESET

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 ›

Table: Employees

Building	Total_years_employed
1e	29
2w	36

```
SELECT building, SUM
    (years_employed) as
    Total_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 ✓

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

Continue ›

Table: Employees

Role	SUM(years_employed)
Engineer	17

```
SELECT role, SUM
    (years_employed)
FROM employees
GROUP BY role
HAVING role = "Engineer";
```

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 ✓

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

Continue ›

Query Results

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

```
    ll_movies
FROM movies
    INNER JOIN boxoffice
        ON movies.id =
            boxoffice
            .movie_id
GROUP BY director;
```

RESET

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.

Continue ›

Query Results

Movie_id	Rating	Domestic_sales	International_sale
3	7.9	245852179	239163000
1	8.3	191796233	170162503
2	7.2	162798565	200600000
4	8.7	340000000	270000000

```
INSERT INTO boxoffice
    VALUES (4, 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.

Continue ›

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	2003	107

```
UPDATE movies
SET title = "Toy Story 3",
    director = "Lee
    Unkrich"
WHERE id = 11;
```

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.

Continue ›

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

```
DELETE FROM movies
where director = "Andrew
    Stanton";
```

RUN QUERY RESET

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.

Continue ›

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
);
```

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 ›

Id	Title	Director	Year	Length_minutes

```
DROP TABLE BoxOffice;
```

RUN QUERY RESET

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.

Continue ›

Query Results

Id	Title	Director	Year	Length_minutes

```
DROP TABLE BoxOffice;
```

RUN QUERY RESET

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.

Continue ›

Table: Movies

Id	Title	Director	Year	Length_minutes	As
1	Toy Story	John Lasseter	1995	81	2.3
2	A Bug's Life	John Lasseter	1998	95	2.3
3	Toy Story 2	John Lasseter	1999	93	2.3
4	Monsters, Inc.	Pete Docter	2001	92	2.3
5	Finding	Andrew	2003	107	2.3

```
ALTER TABLE Movies
  ADD COLUMN 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**. ✓

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

Continue ›