	Tasks	SQL query	Result
Exercise 1. SELECT queries	Find the title of each film	SELECT title FROM movies;	https://drive.google.com/file/d/1wb
	Find the director of each film	SELECT director FROM movies;	https://drive.google.com/file/d/1p9l
	Find the title and director of each film	SELECT title, director FROM movies;	https://drive.google.com/file/d/1Mo
	Find the title and year of each film	SELECT title, year FROM movies;	https://drive.google.com/file/d/1kQ
	Find all the information about each film	SELECT * FROM movies;	https://drive.google.com/file/d/1CG
Exercise 2. Queries with constraints (Pt. 1)	Find the movie with a row id of 6	SELECT id, title FROM movies WHERE id=6;	https://drive.google.com/file/d/1JO
	Find the movies released in the years between 2000 and 2010	SELECT title, year FROM WHERE year BETWEEN 2000 AND 2010;	https://drive.google.com/file/d/1zcY
	Find the movies not released in the years between 2000 and 2010	SELECT title, year FROM movies WHERE year NOT BETWEEN 2000 AND 2010;	https://drive.google.com/file/d/14Y
	Find the first 5 Pixar movies and their release year	SELECT title, year FROM movies LIMIT 5;	https://drive.google.com/file/d/13g
Exercise 3. Queries with constraints (Pt. 2)	Find all the Toy Story movies	SELECT title FROM movies WHERE title LIKE 'Toy Story%';	https://drive.google.com/file/d/1YV
	Find all the movies directed by John Lasseter	SELECT title, director FROM movies WHERE director='John Lasseter';	https://drive.google.com/file/d/1mY
	Find all the movies (and director) not directed by John Lasseter	SELECT title, director FROM movies WHERE director NOT LIKE 'John Lasseter';	https://drive.google.com/file/d/1M1
	Find all the WALL-* movies	SELECT * FROM movies WHERE title LIKE 'WALL-%';	https://drive.google.com/file/d/1p_
Exercise 4. Filtering and sorting Query results	List all directors of Pixar movies (alphabetically), without duplicates	SELECT DISTINCT director FROM movies ORDER BY director;	https://drive.google.com/file/d/1r6a
	List the last four Pixar movies released (ordered from most recent to least)	SELECT title FROM movies ORDER BY year DESC LIMIT 4;	https://drive.google.com/file/d/1xyY
	List the first five Pixar movies sorted alphabetically	SELECT title FROM movies ORDER BY title LIMIT 5;	https://drive.google.com/file/d/1a7
	List the next five Pixar movies sorted alphabetically	SELECT * FROM movies ORDER BY title LIMIT 5 OFFSET 5;	https://drive.google.com/file/d/1YV

Exercise 5. Simple SELECT Queries	List all the Canadian cities and their populations	SELECT city, country, population FROM north_american_cities WHERE country="Canada";	https://drive.google.com/file/d/1W8
	Order all the cities in the United States by their latitude from north to south	SELECT city, country, latitude FROM North_american_cities WHERE country="United States" ORDER BY latitude DESC;	https://drive.google.com/file/d/1Qn
	List all the cities west of Chicago, ordered from west to east	SELECT city, longitude FROM North_american_cities WHERE longitude<-87.629798 ORDER BY longitude;	https://drive.google.com/file/d/1mD
	List the two largest cities in Mexico (by population)	SELECT city, country, population FROM north_american_cities WHERE country="Mexico" ORDER BY population DESC LIMIT 2;	https://drive.google.com/file/d/1bb
	List the third and fourth largest cities (by population) in the United States and their population	SELECT city, country, population FROM north_american_cities WHERE country="United States" ORDER BY population DESC LIMIT 2 OFFSET 2;	https://drive.google.com/file/d/1Jc
Exercise 6. Multi-table queries with JOINs	Find the domestic and international sales for each movie	SELECT title, domestic_sales, international_sales FROM movies JOIN boxoffice ON id=movie_id;	https://drive.google.com/file/d/10Q
	Show the sales numbers for each movie that did better internationally rather than domestically	SELECT title, domestic_sales, international_sales FROM movies JOIN boxoffice ON id=movie_id WHERE international_sales>domestic_sales;	https://drive.google.com/file/d/1da
	List all the movies by their ratings in descending order	SELECT title, rating FROM movies JOIN boxoffice ON id=movie_id ORDER BY rating DESC;	https://drive.google.com/file/d/14z
Exercise 7. OUTER JOINs	Find the list of all buildings that have employees	SELECT DISTINCT building FROM employees WHERE building IS NOT NULL;	https://drive.google.com/file/d/13w
	Find the list of all buildings and their capacity	SELECT * FROM buildings;	https://drive.google.com/file/d/17d
	List all buildings and the distinct employee roles in each building (including empty buildings)	SELECT DISTINCT building_name, role FROM buildings LEFT JOIN employees ON building_name=building;	https://drive.google.com/file/d/1kG
Exercise 8. A short note on NULLs	Find the name and role of all employees who have not been assigned to a building	SELECT name, role FROM employees WHERE building IS NULL;	https://drive.google.com/file/d/1BA
	Find the names of the buildings that hold no employees	SELECT building_name FROM buildings LEFT JOIN employees ON building_name=building WHERE building IS NULL;	https://drive.google.com/file/d/1Zel

Exercise 9. Queries with expressions	List all movies and their combined sales in millions of dollars	SELECT title, (domestic_sales + international_sales) / 1000000 AS total_sales FROM movies JOIN boxoffice ON id=movie_id;	https://drive.google.com/file/d/1Ev1
	List all movies and their ratings in percent	SELECT title, ROUND(rating * 10, 1) AS percentage_rating FROM movies JOIN boxoffice ON id=movie_id;	https://drive.google.com/file/d/1hnl
	List all movies that were released on even number years	SELECT title, year FROM movies WHERE year % 2 = 0;	https://drive.google.com/file/d/1sk(
Exercise 10. Queries with aggregates (Pt. 1)	Find the longest time that an employee has been at the studio	SELECT MAX(years_employed) AS max_years_employed FROM employees;	https://drive.google.com/file/d/11c1
	For each role, find the average number of years employed by employees in that role	SELECT role, AVG(years_employed) as average_year_employed FROM employees GROUP BY role;	https://drive.google.com/file/d/14zV
	Find the total number of employee years worked in each building	SELECT SUM(years_employed) AS total_years, building FROM employees GROUP BY building;	https://drive.google.com/file/d/1p2(
Exercise 11. Queries with aggregates (Pt. 2)	Find the number of Artists in the studio (without a HAVING clause)	SELECT COUNT(role) FROM employees WHERE role="Artist";	https://drive.google.com/file/d/1dR
	Find the number of Employees of each role in the studio	SELECT COUNT(name), role FROM employees GROUP BY role;	https://drive.google.com/file/d/1E0.
	Find the total number of years employed by all Engineers	SELECT role, SUM(years_employed) AS total_years FROM employees GROUP BY role HAVING role = "Engineer";	https://drive.google.com/file/d/16al
Exercise 12. Order of execution of a Query	Find the number of movies each director has directed	SELECT director, COUNT(title) AS count_films FROM movies GROUP BY director;	https://drive.google.com/file/d/1VE
	Find the total domestic and international sales that can be attributed to each director	SELECT director, SUM(domestic_sales + international_sales) AS sum_sales FROM movies JOIN boxoffice ON id=movie_id GROUP BY director;	https://drive.google.com/file/d/1M5