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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;
```

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 ›

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

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

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

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` ✓

```
SELECT * FROM movies where id between 1 and 5
```

RESET

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

Continue ›

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

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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-%"
```

RESET

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

Continue ›

Next – SQL Lesson 4: Filtering and sorting Query results
Previous – SQL Lesson 2: Queries with constraints (Pt. 1)

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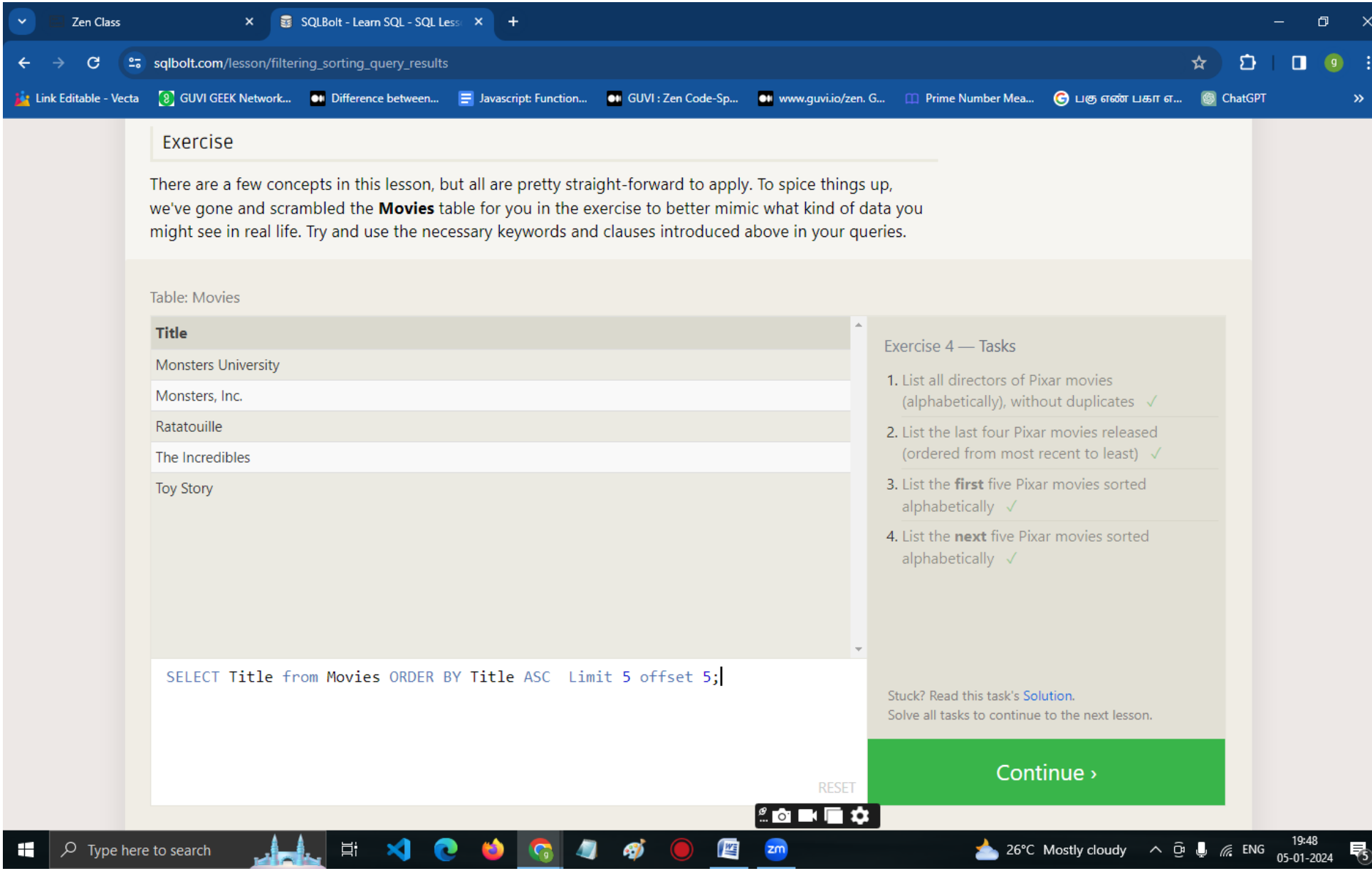
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Exercise
There are a few concepts in this lesson, but all are pretty straight-forward to apply. To spice things up, we've gone and scrambled the Movies table for you in the exercise to better mimic what kind of data you might see in real life. Try and use the necessary keywords and clauses introduced above in your queries.
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.
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Table: North_american_cities

City
Chicago
Houston

```
SELECT City FROM north_american_cities Where Country = "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 ›

Next – SQL Lesson 6: Multi-table queries with JOINs
Previous – SQL Lesson 4: Filtering and sorting Query results

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5	Finding Nemo	Andrew Stanton	2003	107	3	7.9	245852179	239163000
6	The Incredibles	Brad Bird	2004	116	6	8	261441092	370001000

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

```
SELECT Title, Rating FROM Movies INNER JOIN Boxoffice ON Movies.Id =
    Boxoffice.Movie_Id Where Rating 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 ›

Next – SQL Lesson 7: OUTER JOINs
Previous – SQL Review: Simple SELECT Queries

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Engineer	Malcom S.	1e	1
Artist	Tylar S.	2w	2

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
    Buildings.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 ›

Next – SQL Lesson 8: A short note on NULLs
Previous – SQL Lesson 6: Multi-table queries with JOINs

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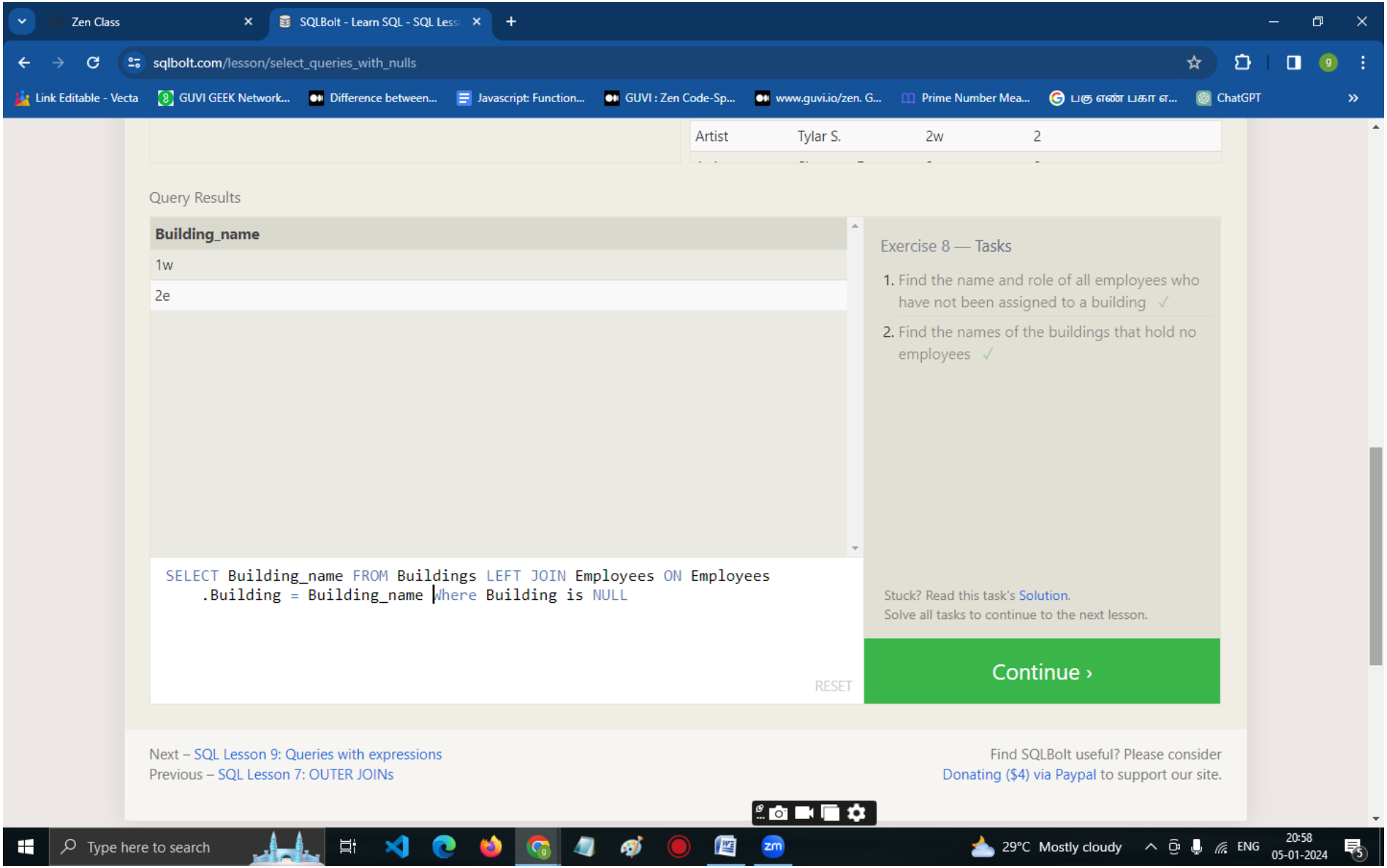
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Artist Tylar S. 2w 2
Query Results
Building_name
1w
2e
Exercise 8 — Tasks
1. Find the name and role of all employees who have not been assigned to a building ✓
2. Find the names of the buildings that hold no employees ✓
SELECT Building_name FROM Buildings LEFT JOIN Employees ON Employees .Building = Building_name Where Building is NULL
RESET
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
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Previous – SQL Lesson 7: OUTER JOINs
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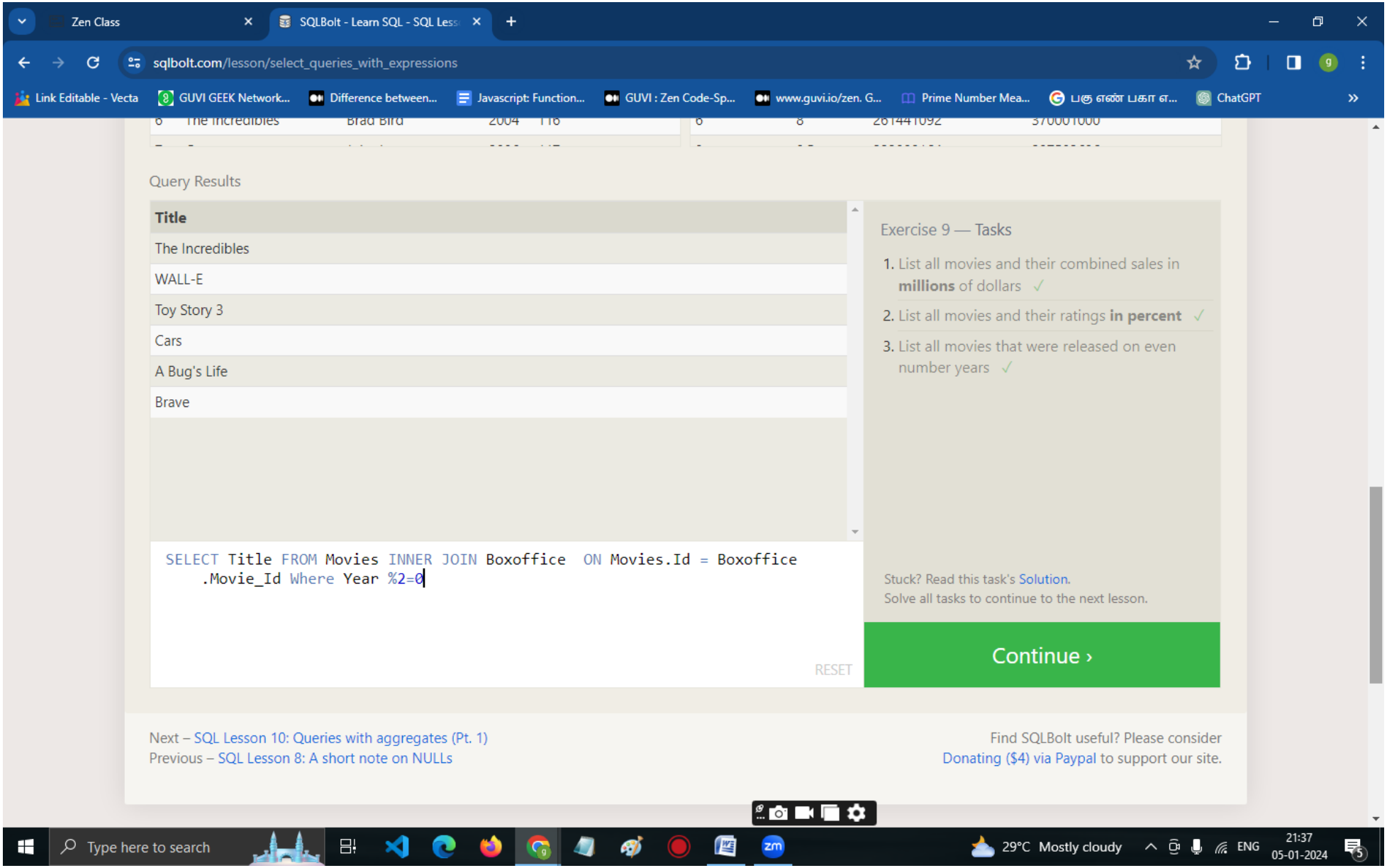
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6 The Incredibles Brad Bird 2004 116
6 8 261441092 370001000
Query Results
Title
The Incredibles
WALL-E
Toy Story 3
Cars
A Bug's Life
Brave
SELECT Title FROM Movies INNER JOIN Boxoffice ON Movies.Id = Boxoffice
.Movie_Id Where Year %2=0
RESET
Exercise 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.
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Next – SQL Lesson 10: Queries with aggregates (Pt. 1)
Previous – SQL Lesson 8: A short note on NULLs
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Table: Employees

SUM(Years_employed)	Building
29	1e
36	2w

```
SELECT SUM(Years_employed), Building 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 ›

Next – SQL Lesson 11: Queries with aggregates (Pt. 2)
Previous – SQL Lesson 9: Queries with expressions

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Table: Employees

SUM(Years_employed)	Role
17	Engineer

```
SELECT SUM(Years_employed), Role AS [Role] 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 ›

Next – SQL Lesson 12: Order of execution of a Query
Previous – SQL Lesson 10: Queries with aggregates (Pt. 1)

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13	Brave	Brenda Chapman	2012	102
14	Monsters University	Dan Scanlon	2013	110

6	8	261441092	370001000

Query Results

SUM(Domestic_sales) + SUM (International_sales)	Director
1458055121	Andrew Stanton
1255164910	Brad Bird
538983207	Brenda Chapman
743559607	Dan Scanlon
2232208025	John Lasseter
1063171911	Lee Unkrich
1294159000	Pete Docter

```
SELECT SUM(Domestic_sales) + SUM (International_sales), Director FROM Movies
    INNER JOIN Boxoffice ON Boxoffice.Movie_id = Movies.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 ›

Next – SQL Lesson 13: Inserting rows
Previous – SQL Lesson 11: Queries with aggregates (Pt. 2)

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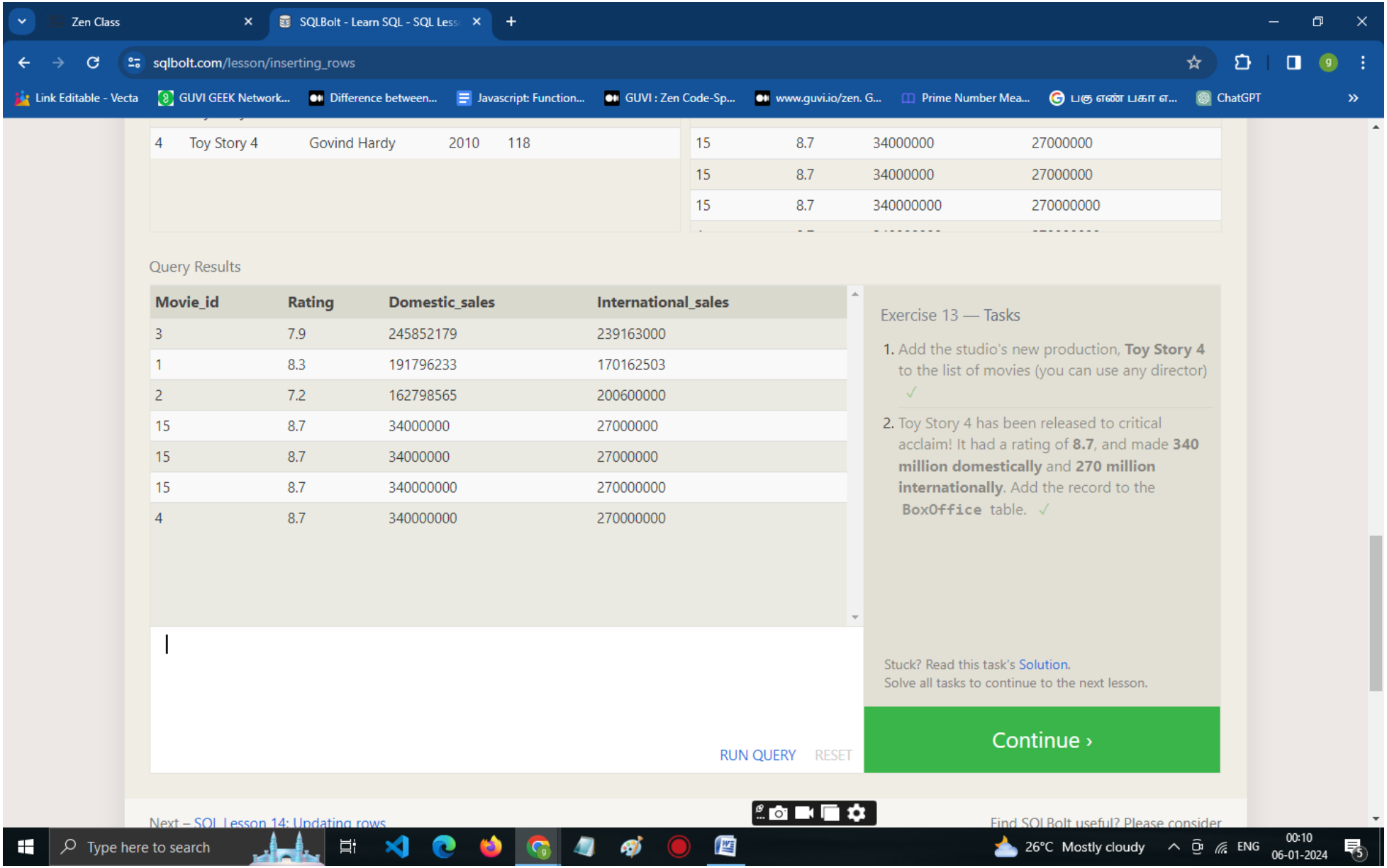
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4 Toy Story 4 Govind Hardy 2010 118
15 8.7 34000000 27000000
15 8.7 34000000 27000000
15 8.7 340000000 270000000
Query Results
Movie_id Rating Domestic_sales International_sales
3 7.9 245852179 239163000
1 8.3 191796233 170162503
2 7.2 162798565 200600000
15 8.7 34000000 27000000
15 8.7 34000000 27000000
15 8.7 340000000 270000000
4 8.7 340000000 270000000
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.
RUN QUERY
RESET
Continue ›
Next – SQL Lesson 14: Updating rows
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Exercise

It looks like some of the information in our **Movies** database might be incorrect, so go ahead and fix them through the exercises below.

Table: Movies

4	Monsters, Inc.	John Lasseter	2001	92
5	Finding Nemo	John Lasseter	2003	107
6	The Incredibles	John lasseter	2004	116
7	Cars	John lasseter	2006	117
8	Ratatouille	John lasseter	2007	115
9	WALL-E	John lasseter	2008	104
10	Up	John lasseter	2009	101
11	Toy Story 3	Lee Unkrich	2010	103
12	Cars 2	John lasseter	2011	120
13	Brave	John lasseter	2012	102
14	Monsters University	John lasseter	2013	110

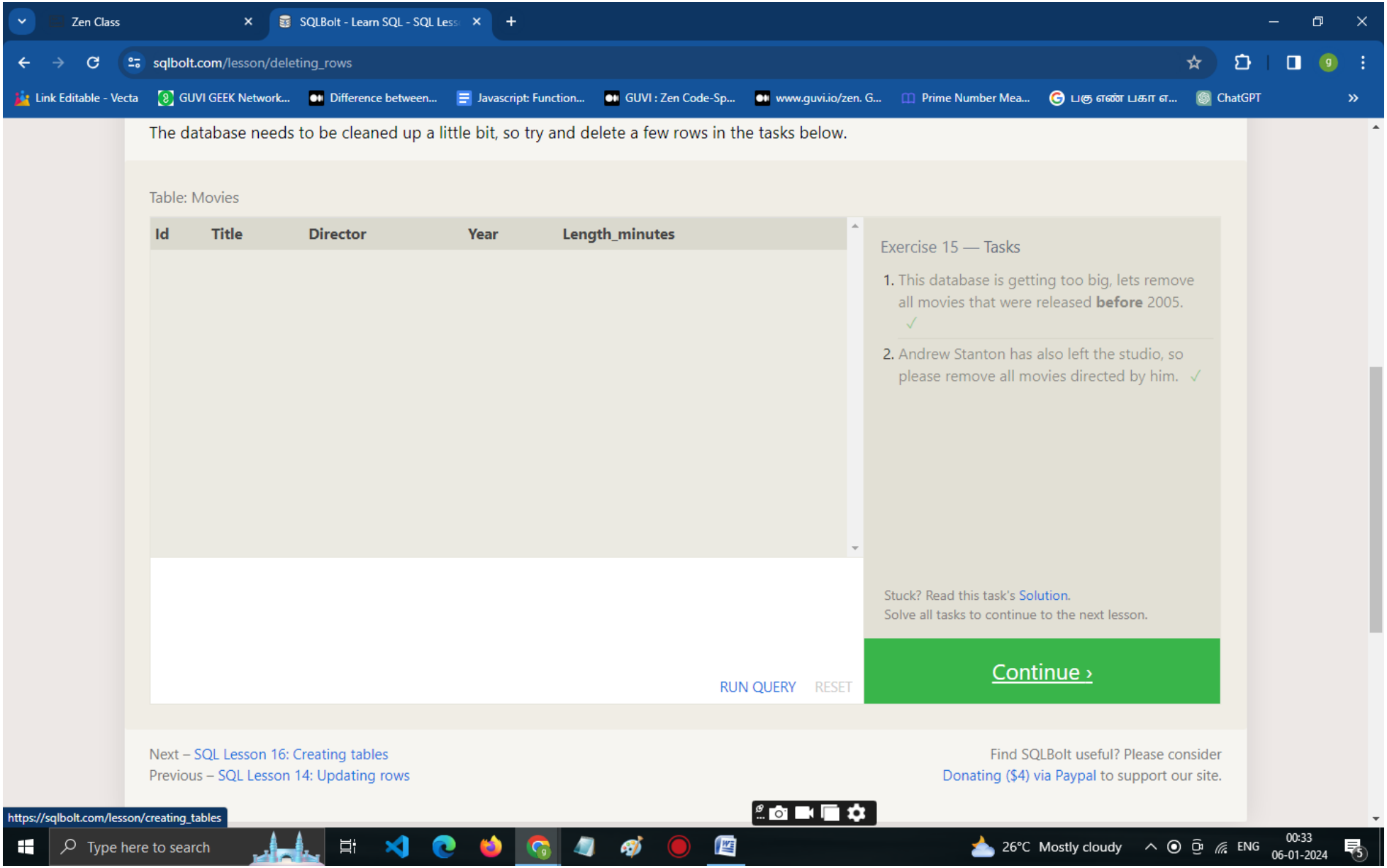
RUN QUERY RESET

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 ›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The database needs to be cleaned up a little bit, so try and delete a few rows in the tasks below.
Table: Movies
Id
Title
Director
Year
Length_minutes
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 ›
Next – SQL Lesson 16: Creating tables
Previous – SQL Lesson 14: Updating rows
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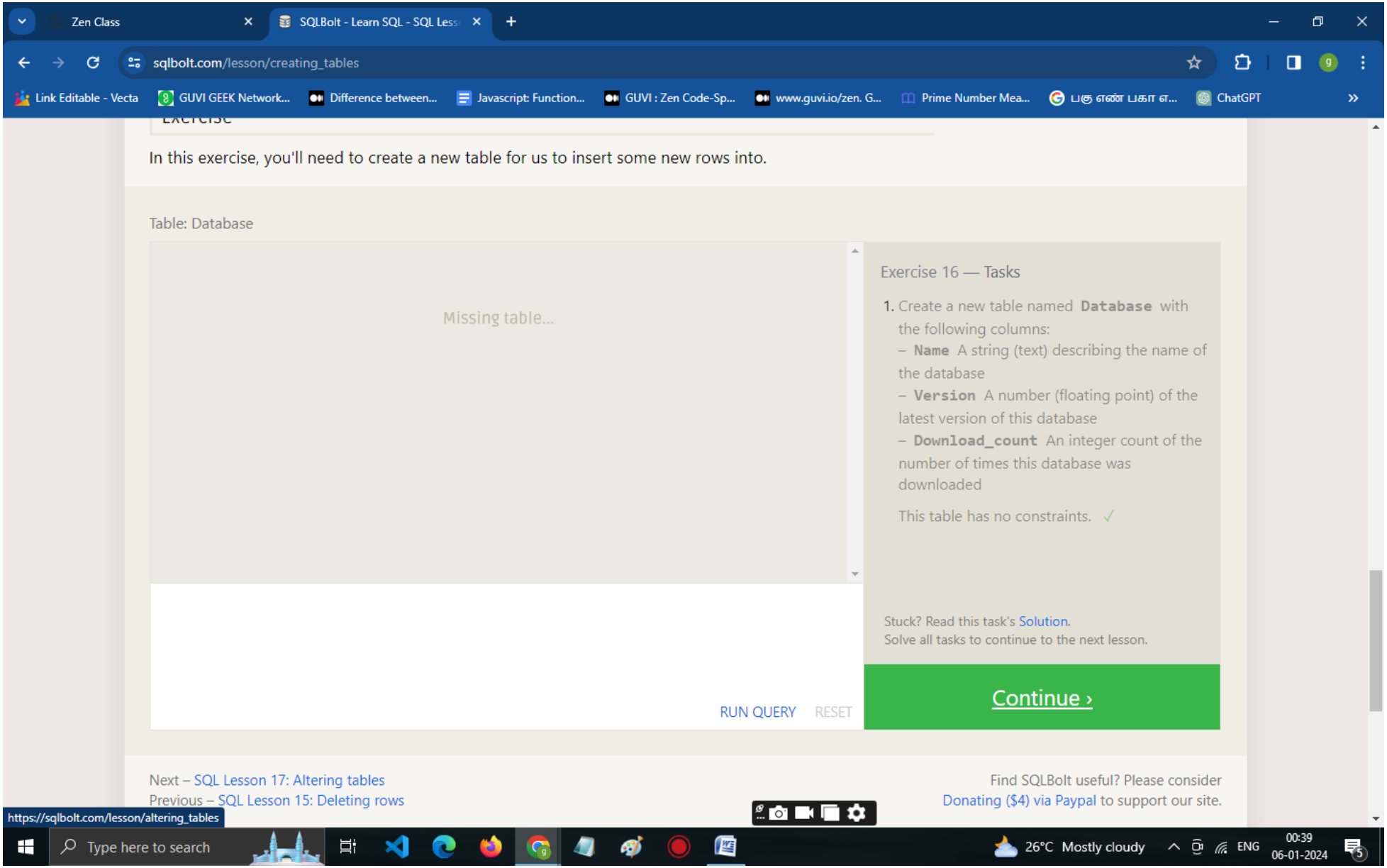
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In this exercise, you'll need to create a new table for us to insert some new rows into.
Table: Database
Missing table...
Exercise 16 — Tasks
1. Create a new table named Database with the following columns:
– Name A string (text) describing the name 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 ›
Next – SQL Lesson 17: Altering tables
Previous – SQL Lesson 15: Deleting rows
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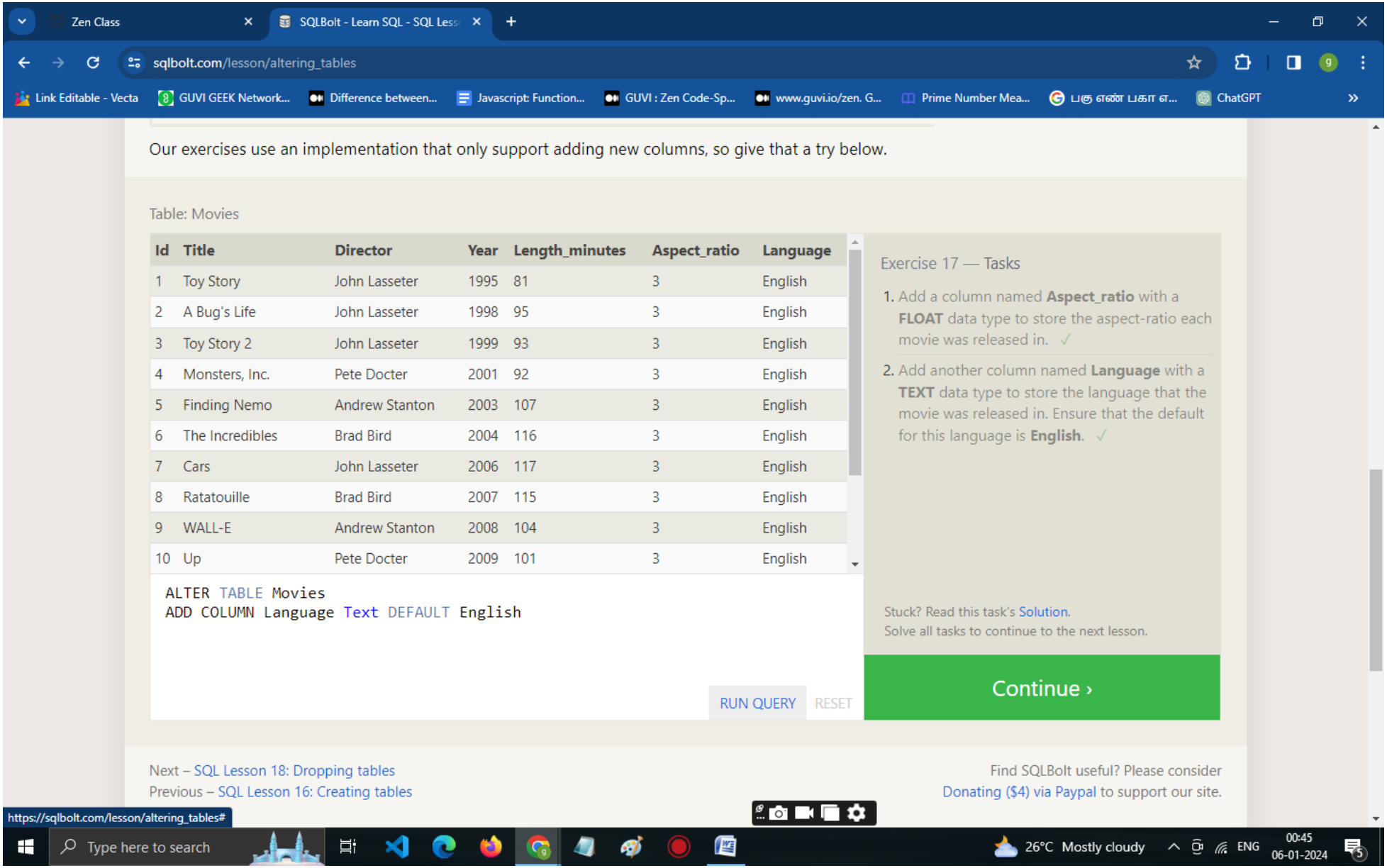
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Our exercises use an implementation that only support adding new columns, so give that a try below.
Table: Movies
Id Title Director Year Length_minutes Aspect_ratio Language
1 Toy Story John Lasseter 1995 81 3 English
2 A Bug's Life John Lasseter 1998 95 3 English
3 Toy Story 2 John Lasseter 1999 93 3 English
4 Monsters, Inc. Pete Docter 2001 92 3 English
5 Finding Nemo Andrew Stanton 2003 107 3 English
6 The Incredibles Brad Bird 2004 116 3 English
7 Cars John Lasseter 2006 117 3 English
8 Ratatouille Brad Bird 2007 115 3 English
9 WALL-E Andrew Stanton 2008 104 3 English
10 Up Pete Docter 2009 101 3 English
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 ›
Next – SQL Lesson 18: Dropping tables
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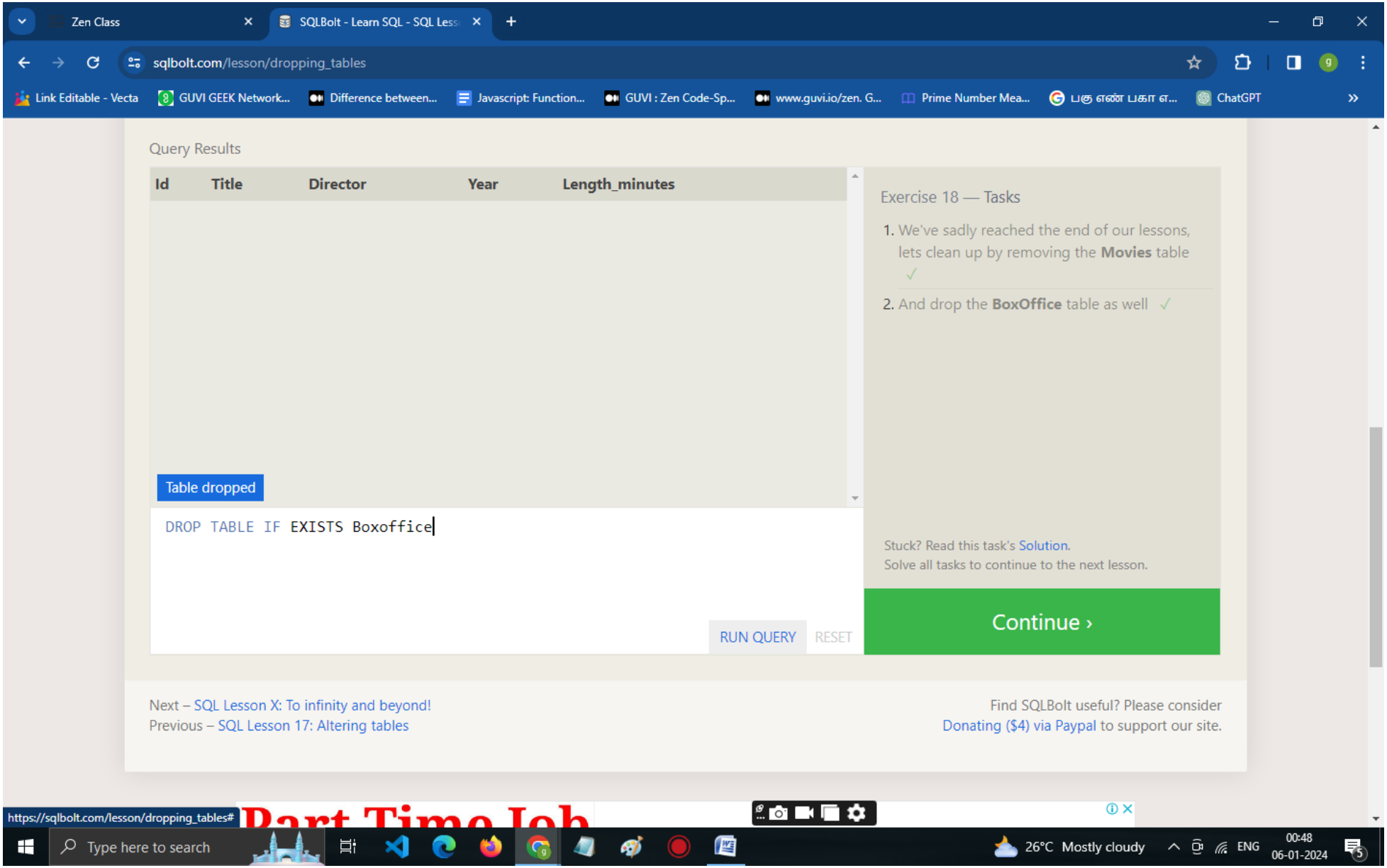
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Query Results
Id
Title
Director
Year
Length_minutes
Table dropped
DROP TABLE IF EXISTS Boxoffice
RUN QUERY
RESET
Exercise 18 — Tasks
1. We've sadly reached the end of our lessons, lets clean up by removing the Movies table
2. And drop the BoxOffice table as well
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
Continue ›
Next – SQL Lesson X: To infinity and beyond!
Previous – SQL Lesson 17: Altering tables
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SQL Lesson X: To infinity and beyond!

You've finished the tutorial!

We hope the lessons have given you a bit more experience with SQL and a bit more confidence to use SQL with your own data.

We've just brushed the surface of what SQL is capable of, so to get a better idea of how SQL can be used in the real world, we'll be adding more articles in the More Topics part of the site. If you have the time, we recommend that you continue to dive deeper into SQL!

If you need further details, it's also recommended that you read the documentation for the sp

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