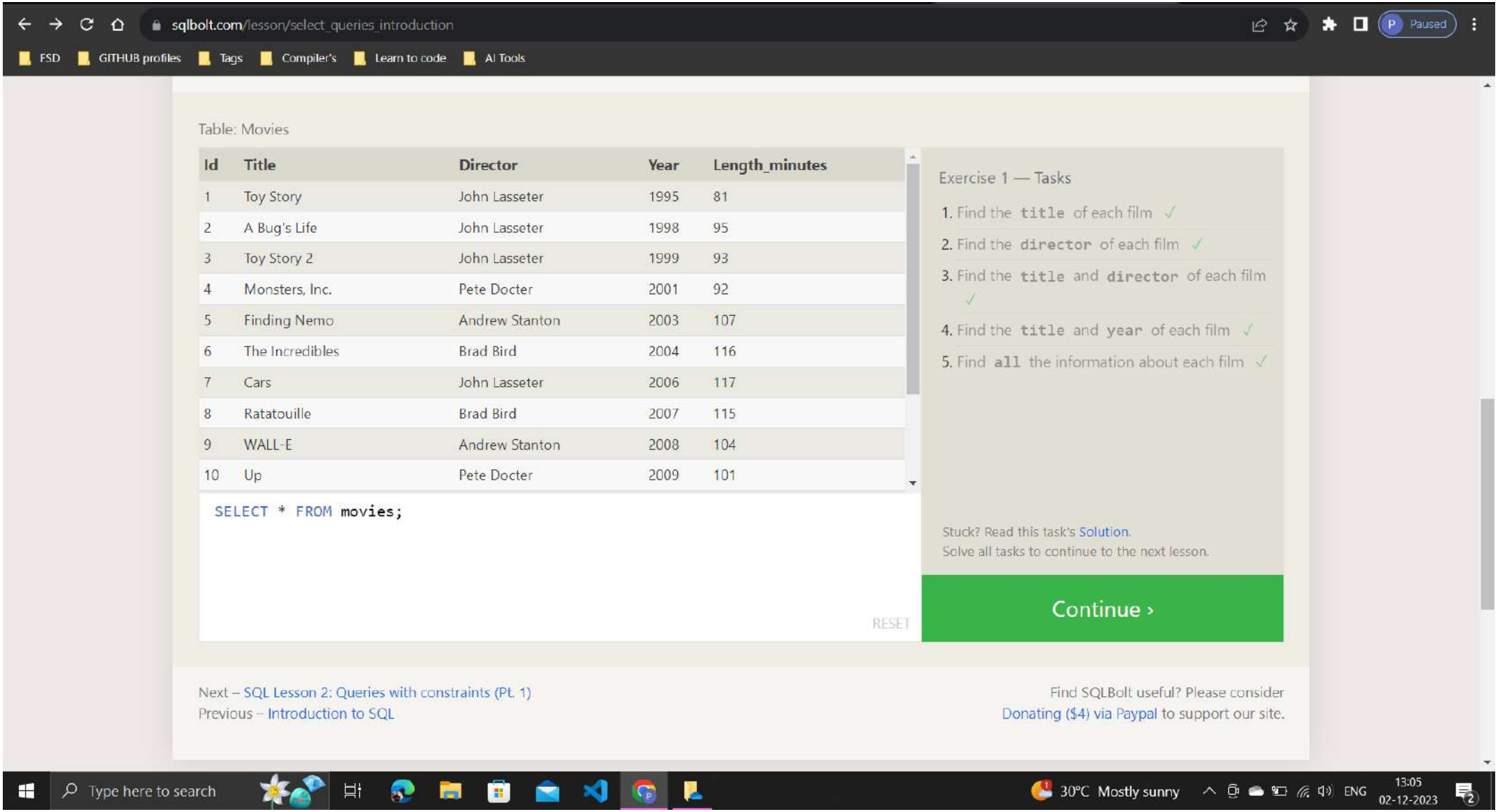
sqlbolt.com/lesson/select_queries_introduction
Paused
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Tags
Compiler's
Learn to code
AI Tools
Table: Movies
Id Title Director Year Length_minutes
1 Toy Story John Lasseter 1995 81
2 A Bug's Life John Lasseter 1998 95
3 Toy Story 2 John Lasseter 1999 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.
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Next – SQL Lesson 2: Queries with constraints (Pt. 1)
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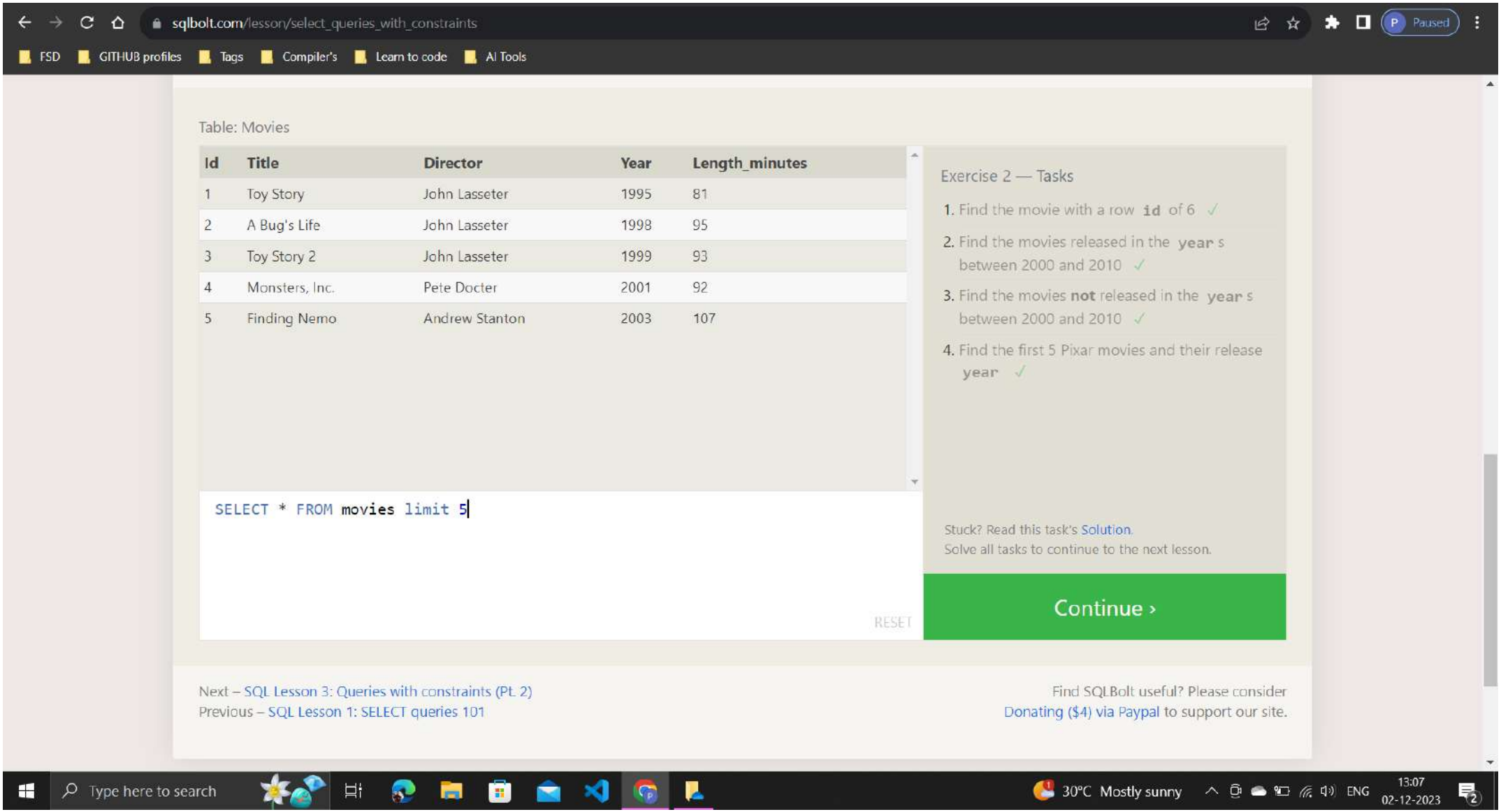
sqlbolt.com/lesson/select_queries_with_constraints
Paused
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Tags
Compiler's
Learn to code
AI Tools
Table: Movies
Id Title Director Year Length_minutes
1 Toy Story John Lasseter 1995 81
2 A Bug's Life John Lasseter 1998 95
3 Toy Story 2 John Lasseter 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 years between 2000 and 2010 ✓
3. Find the movies not released in the years between 2000 and 2010 ✓
4. Find the first 5 Pixar movies and their release year ✓
SELECT * FROM movies limit 5
RESET
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
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Next – SQL Lesson 3: Queries with constraints (Pt. 2)
Previous – SQL Lesson 1: SELECT queries 101
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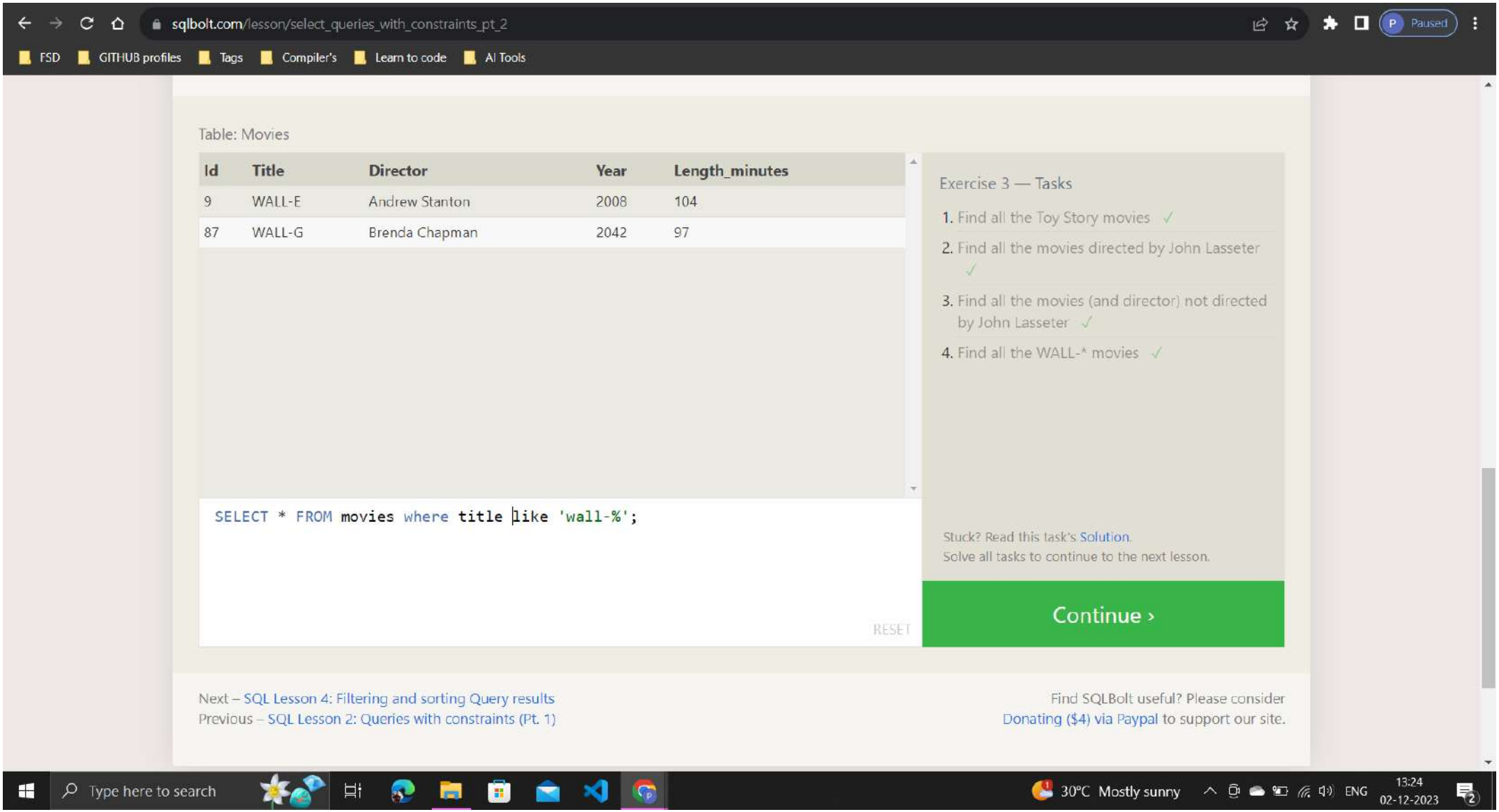
sqlbolt.com/lesson/select_queries_with_constraints_pt_2
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Table: Movies
Id Title Director Year Length_minutes
9 WALL-E Andrew Stanton 2008 104
87 WALL-G Brenda Chapman 2042 97
Exercise 3 — Tasks
1. Find all the Toy Story movies ✓
2. Find 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.
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Next – SQL Lesson 4: Filtering and sorting Query results
Previous – SQL Lesson 2: Queries with constraints (Pt. 1)
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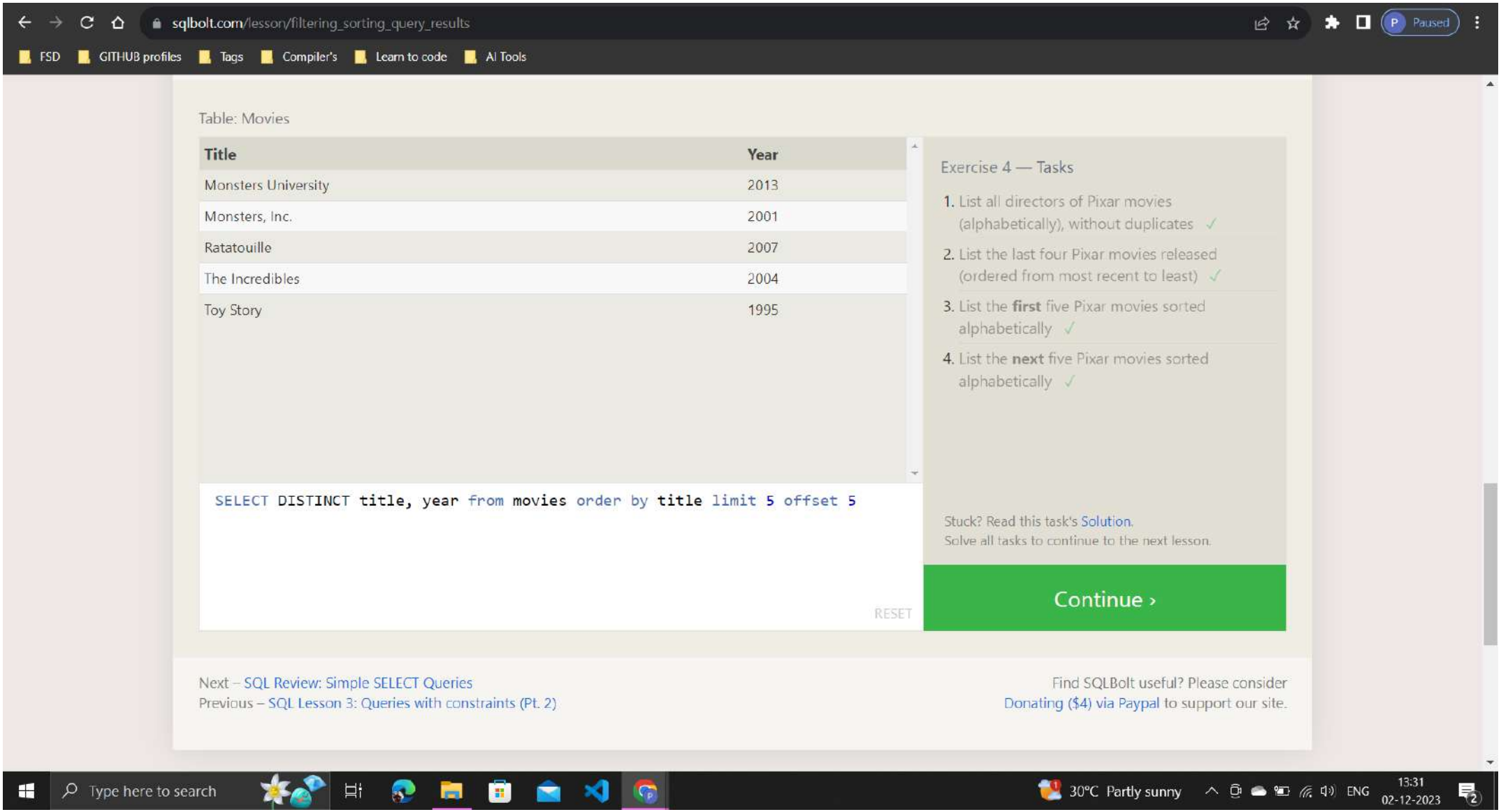
sqlbolt.com/lesson/filtering_sorting_query_results
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Table: Movies
Title
Year
Monsters University
2013
Monsters, Inc.
2001
Ratatouille
2007
The Incredibles
2004
Toy Story
1995
Exercise 4 — Tasks
1. List all directors of Pixar movies (alphabetically), 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 DISTINCT title, year from movies order by title limit 5 offset 5
RESET
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
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Next – SQL Review: Simple SELECT Queries
Previous – SQL Lesson 3: Queries with constraints (Pt. 2)
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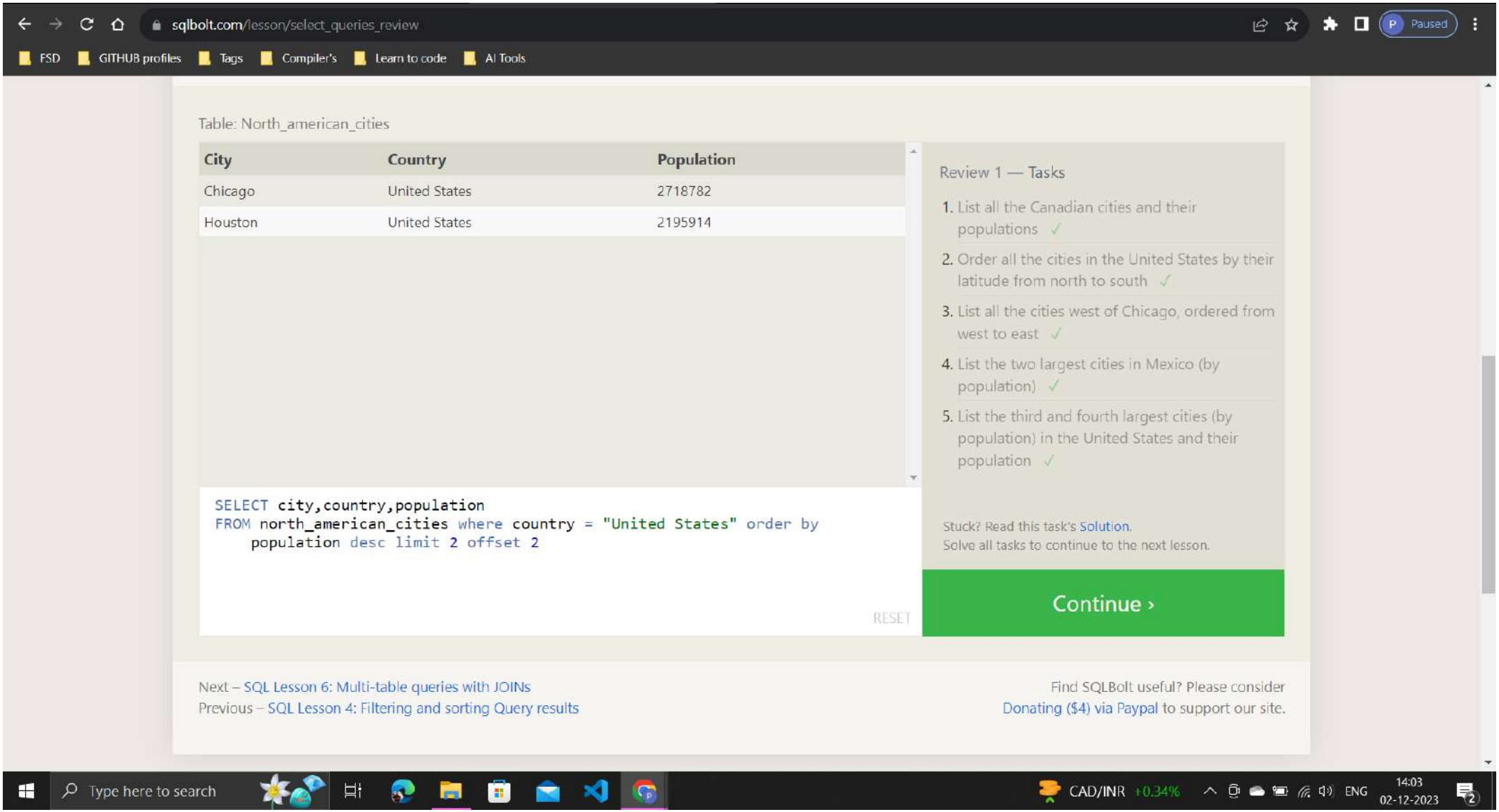
sqlbolt.com/lesson/select_queries_review
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Table: North_american_cities
City
Country
Population
Chicago
United States
2718782
Houston
United States
2195914
SELECT city,country,population
FROM north_american_cities where country = "United 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.
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Next – SQL Lesson 6: Multi-table queries with JOINs
Previous – SQL Lesson 4: Filtering and sorting Query results
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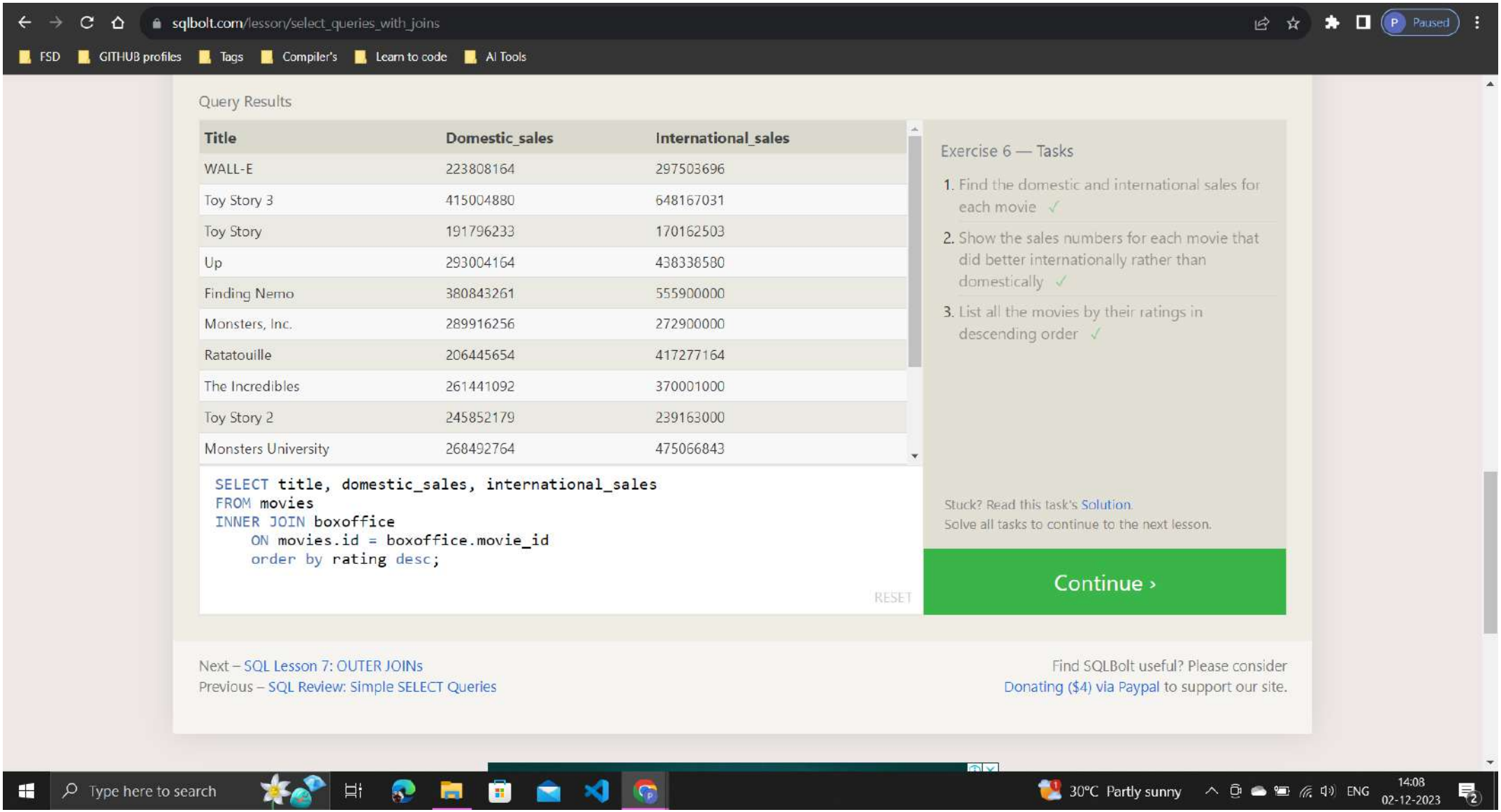
sqlbolt.com/lesson/select_queries_with_joins
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Query Results
Title | Domestic_sales | International_sales
WALL-E | 223808164 | 297503696
Toy Story 3 | 415004880 | 648167031
Toy Story | 191796233 | 170162503
Up | 293004164 | 438338580
Finding Nemo | 380843261 | 555900000
Monsters, Inc. | 289916256 | 272900000
Ratatouille | 206445654 | 417277164
The Incredibles | 261441092 | 370001000
Toy Story 2 | 245852179 | 239163000
Monsters University | 268492764 | 475066843
SELECT title, domestic_sales, international_sales
FROM movies
INNER 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.
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Next – SQL Lesson 7: OUTER JOINs
Previous – SQL Review: Simple SELECT Queries
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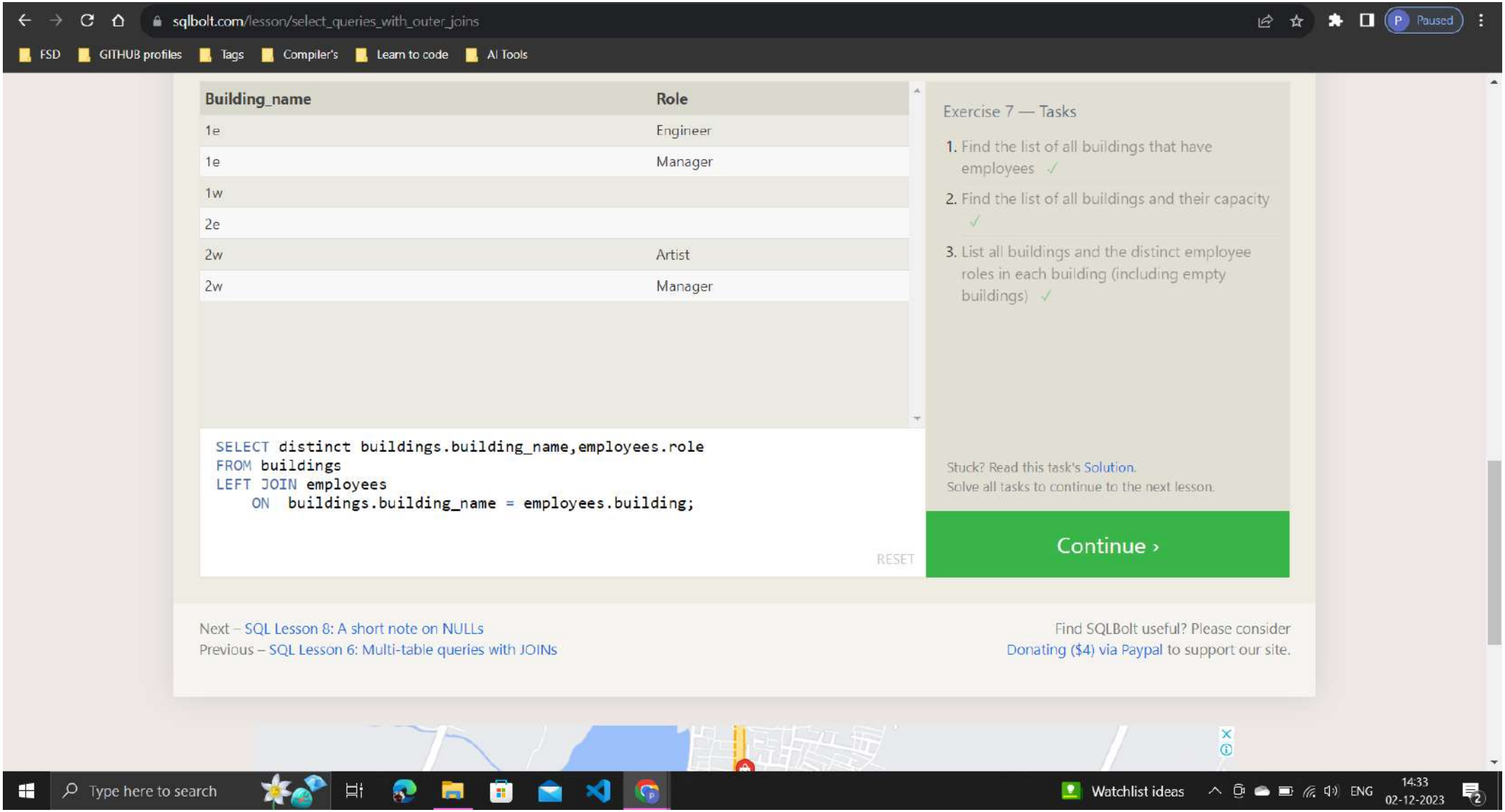
sqlbolt.com/lesson/select_queries_with_outer_joins
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Building_name
Role
1e
Engineer
1e
Manager
1w
2e
2w
Artist
2w
Manager
SELECT distinct buildings.building_name,employees.role
FROM buildings
LEFT JOIN employees
ON buildings.building_name = 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.
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Next – SQL Lesson 8: A short note on NULLs
Previous – SQL Lesson 6: Multi-table queries with JOINs
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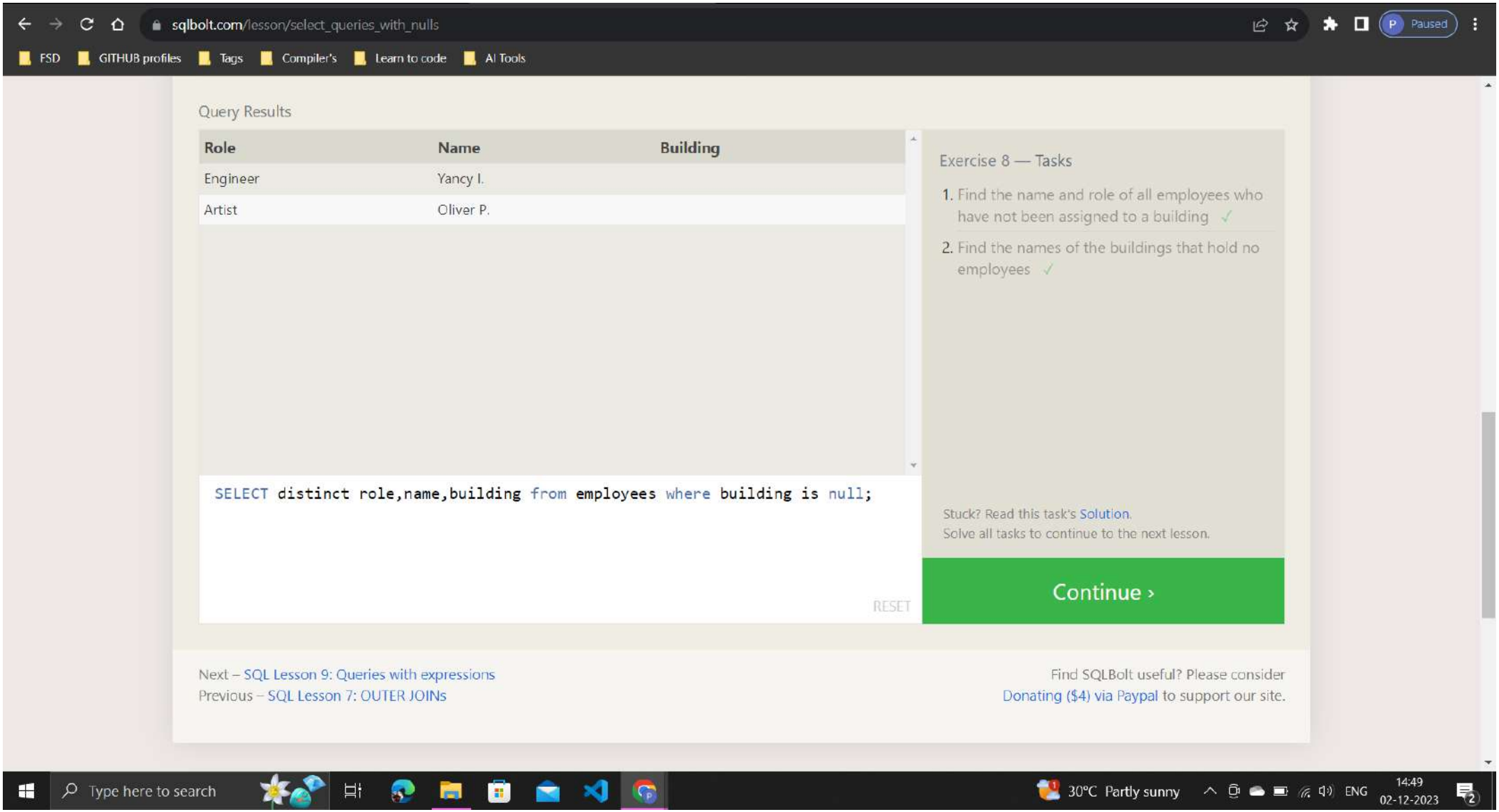
sqlbolt.com/lesson/select_queries_with_nulls
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Query Results
Role
Name
Building
Engineer
Yancy I.
Artist
Oliver P.
SELECT distinct role,name,building from employees where building is null;
RESET
Exercise 8 — Tasks
1. Find the name and role 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 ›
Next – SQL Lesson 9: Queries with expressions
Previous – SQL Lesson 7: OUTER JOINs
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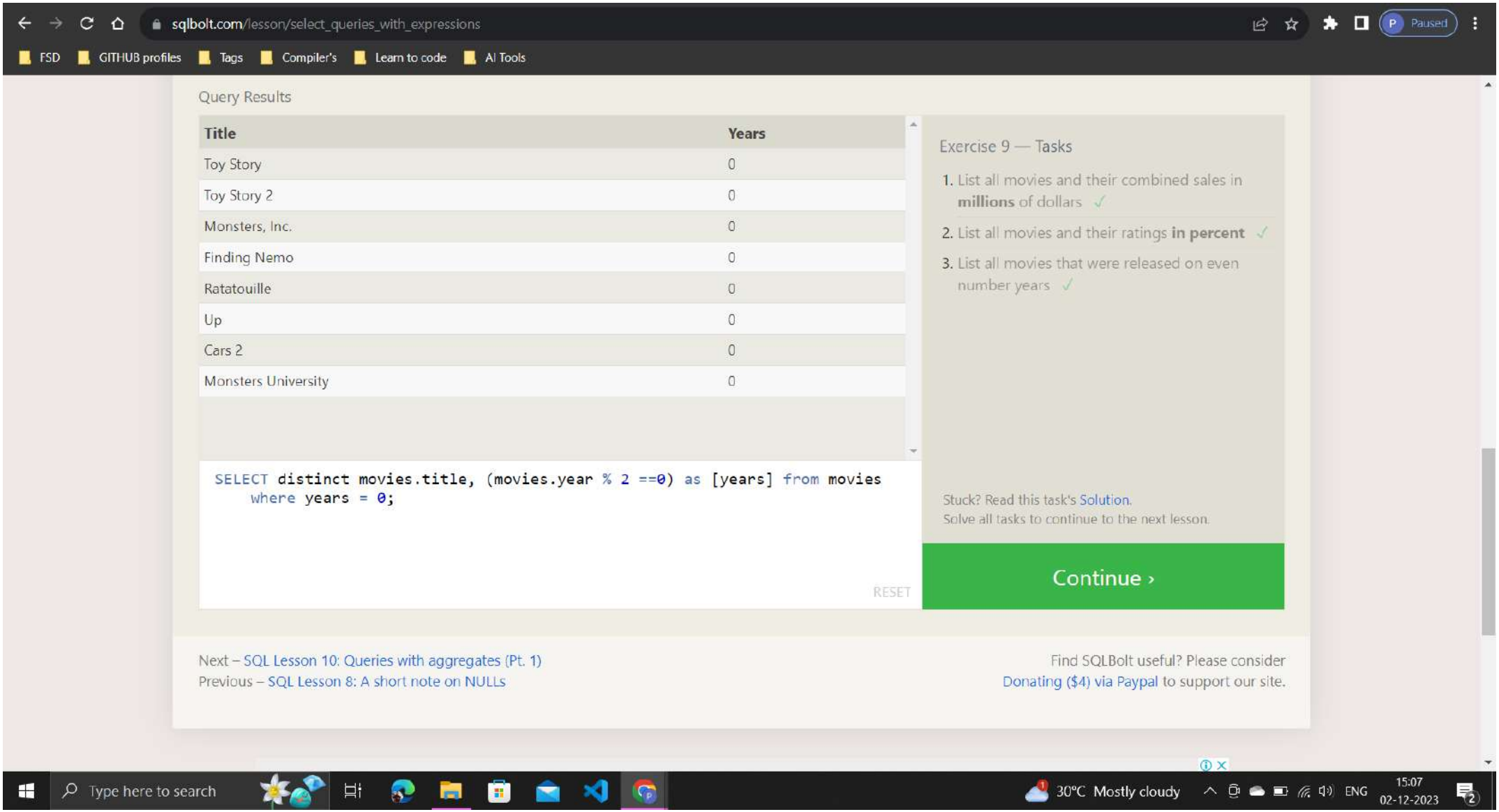
sqlbolt.com/lesson/select_queries_with_expressions
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Query Results
Title
Years
Toy Story
0
Toy Story 2
0
Monsters, Inc.
0
Finding Nemo
0
Ratatouille
0
Up
0
Cars 2
0
Monsters University
0
SELECT distinct movies.title, (movies.year % 2 ==0) as [years] from movies
where years = 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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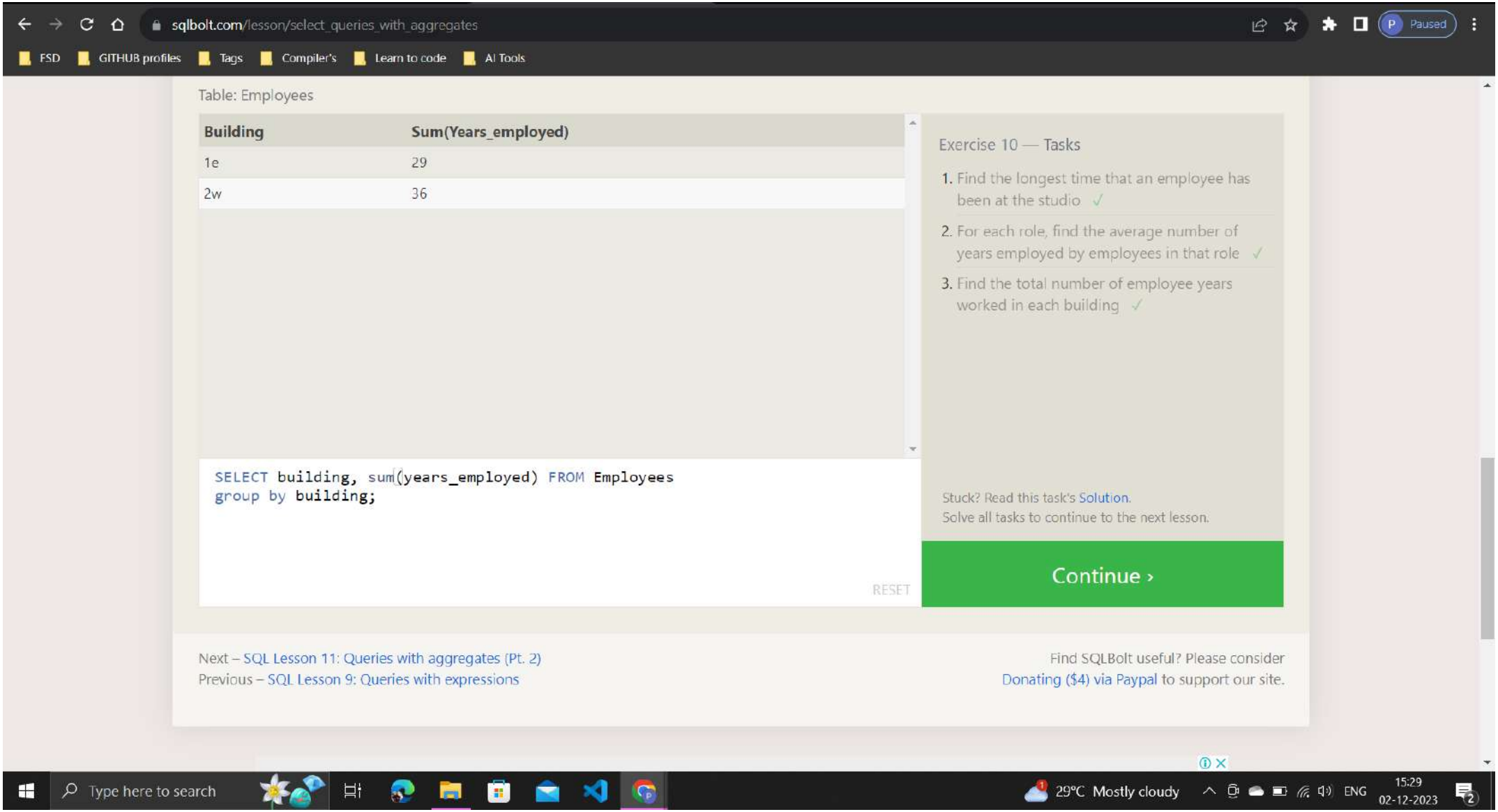
sqlbolt.com/lesson/select_queries_with_aggregates
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Table: Employees
Building
Sum(Years_employed)
1e
29
2w
36
SELECT building, sum(years_employed) FROM Employees
group by building;
RESET
Exercise 10 — Tasks
1. Find the longest time that 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 ›
Next – SQL Lesson 11: Queries with aggregates (Pt. 2)
Previous – SQL Lesson 9: Queries with expressions
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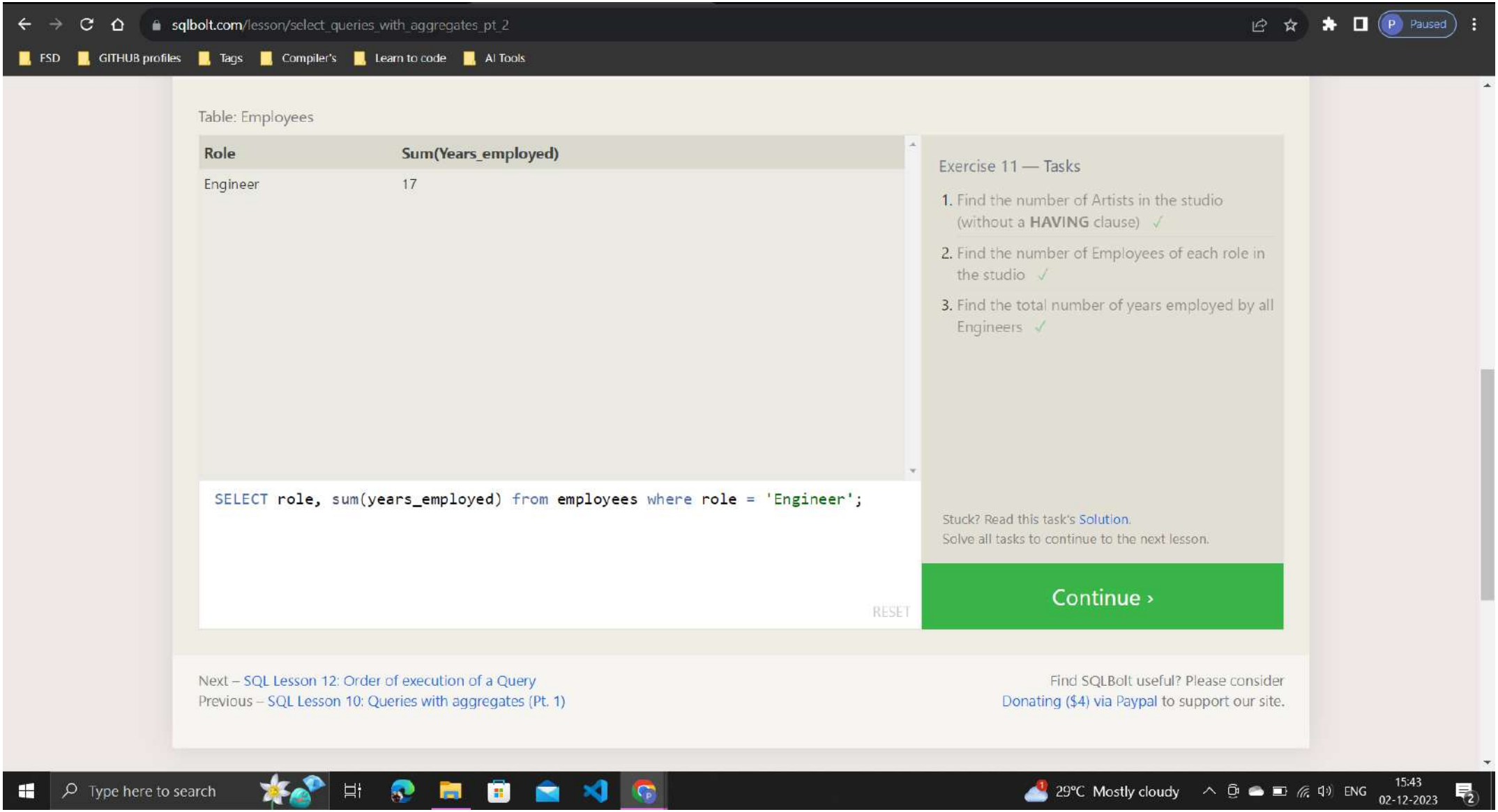
sqlbolt.com/lesson/select_queries_with_aggregates_pt_2
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Table: Employees
Role
Sum(Years_employed)
Engineer
17
SELECT role, sum(years_employed) from employees where role = 'Engineer';
RESET
Exercise 11 — Tasks
1. Find the number of Artists 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.
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Next – SQL Lesson 12: Order of execution of a Query
Previous – SQL Lesson 10: Queries with aggregates (Pt. 1)
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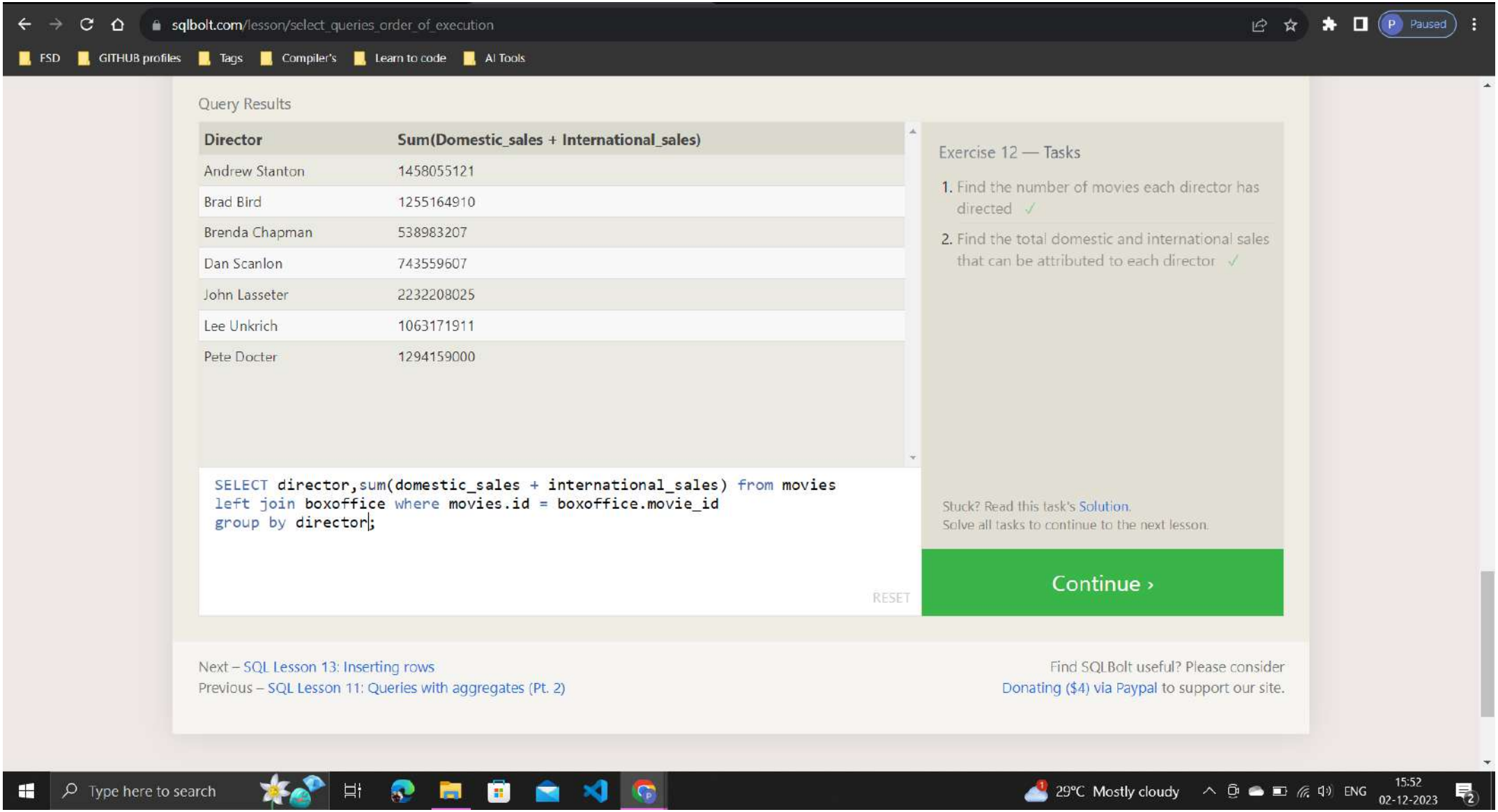
sqlbolt.com/lesson/select_queries_order_of_execution
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Query Results
Director
Sum(Domestic_sales + International_sales)
Andrew Stanton
1458055121
Brad Bird
1255164910
Brenda Chapman
538983207
Dan Scanlon
743559607
John Lasseter
2232208025
Lee Unkrich
1063171911
Pete Docter
1294159000
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 ✓
SELECT director,sum(domestic_sales + international_sales) from movies
left join boxoffice where movies.id = boxoffice.movie_id
group by director;
RESET
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
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Next – SQL Lesson 13: Inserting rows
Previous – SQL Lesson 11: Queries with aggregates (Pt. 2)
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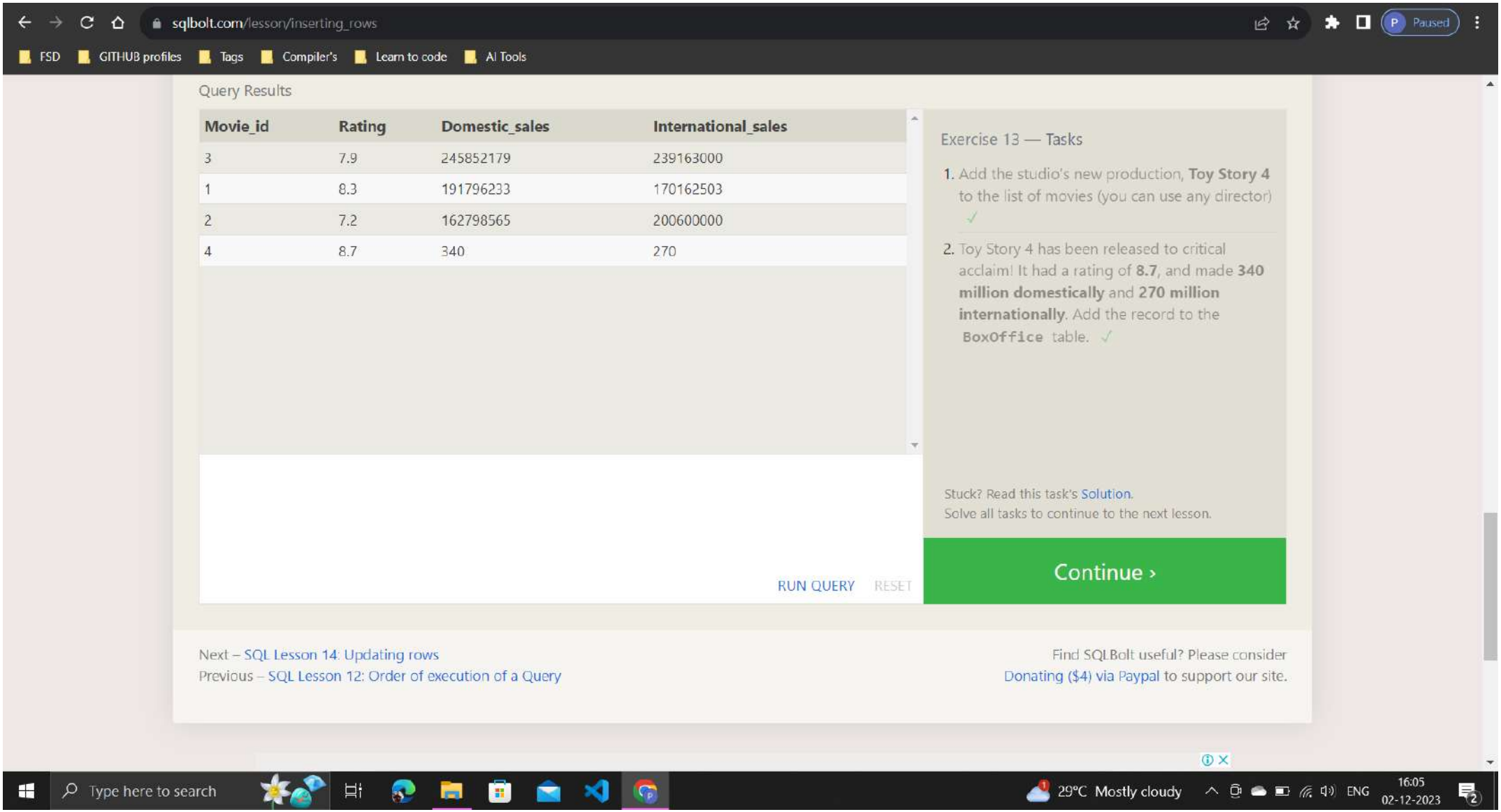
sqlbolt.com/lesson/inserting_rows
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Query Results
Movie_id Rating Domestic_sales International_sales
3 7.9 245852179 239163000
1 8.3 191796233 170162503
2 7.2 162798565 200600000
4 8.7 340 270
Exercise 13 — Tasks
1. Add the studio's new 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
Previous – SQL Lesson 12: Order of execution of a Query
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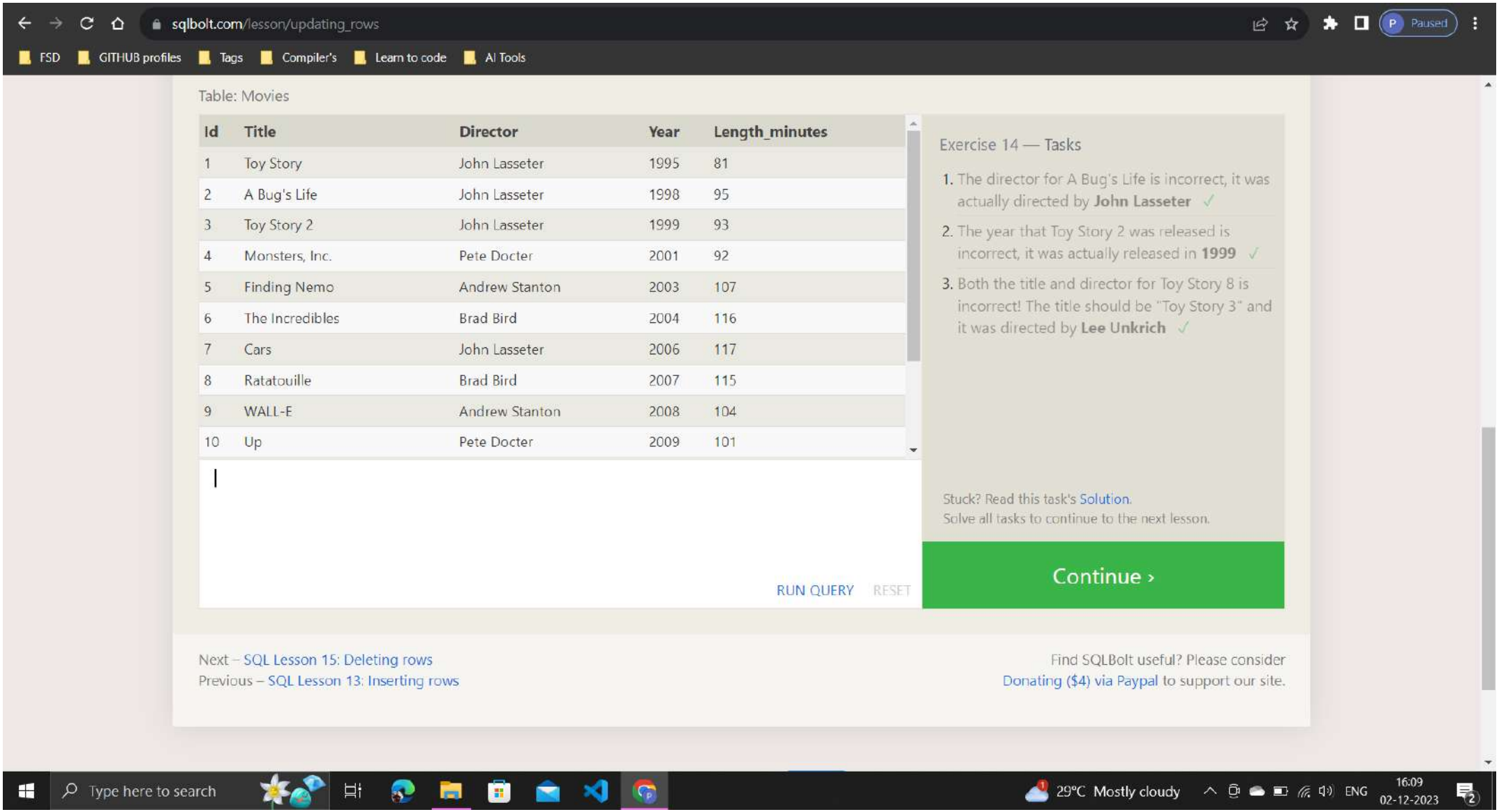
sqlbolt.com/lesson/updating_rows
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Table: Movies
Id Title Director Year Length_minutes
1 Toy Story John Lasseter 1995 81
2 A Bug's Life John Lasseter 1998 95
3 Toy Story 2 John Lasseter 1999 93
4 Monsters, Inc. Pete Docter 2001 92
5 Finding 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
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 ›
Next – SQL Lesson 15: Deleting rows
Previous – SQL Lesson 13: Inserting rows
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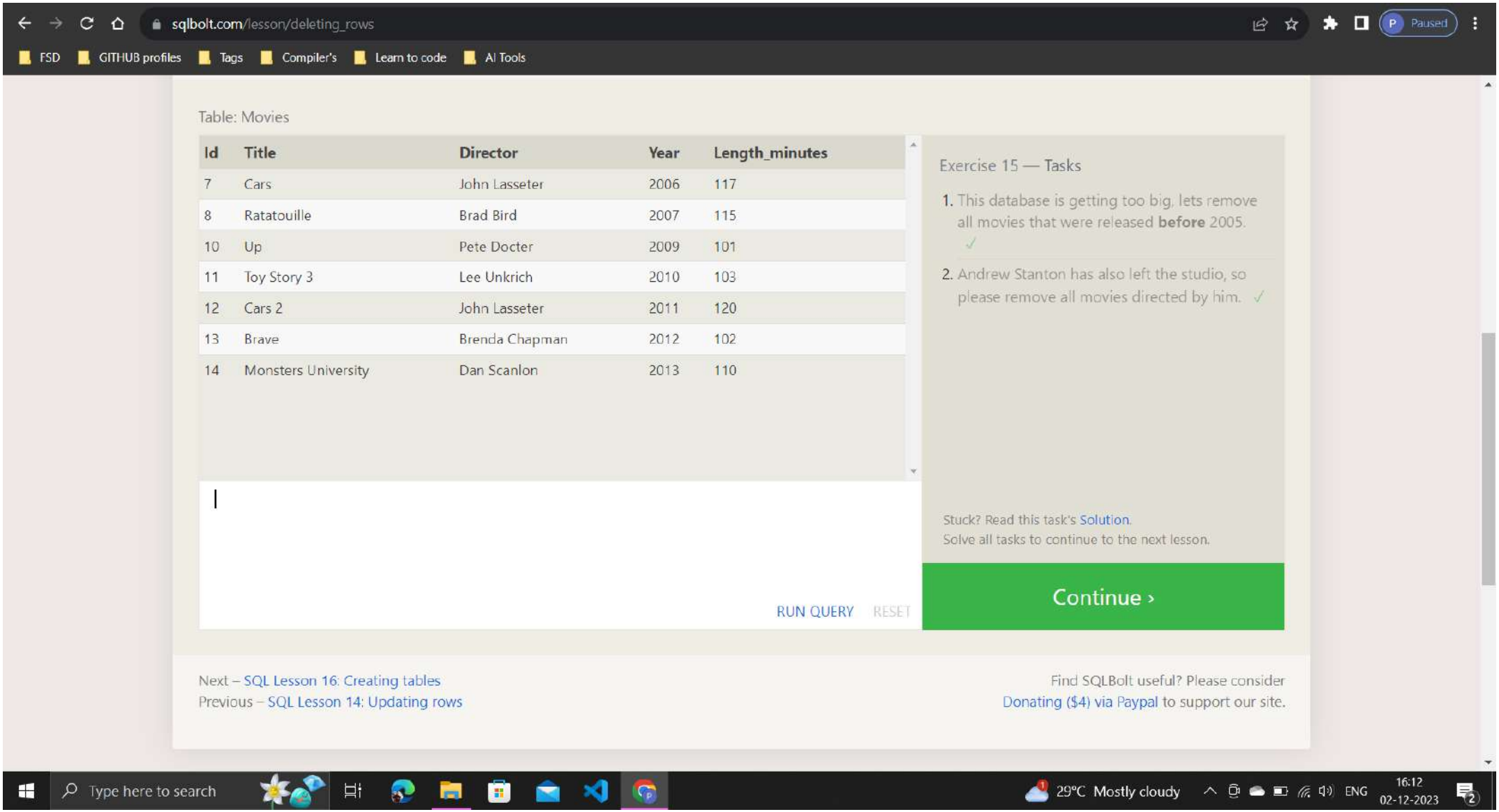
sqlbolt.com/lesson/deleting_rows
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Table: Movies
Id Title Director Year Length_minutes
7 Cars John Lasseter 2006 117
8 Ratatouille Brad Bird 2007 115
10 Up Pete Docter 2009 101
11 Toy Story 3 Lee Unkrich 2010 103
12 Cars 2 John Lasseter 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 ›
Next – SQL Lesson 16: Creating tables
Previous – SQL Lesson 14: Updating rows
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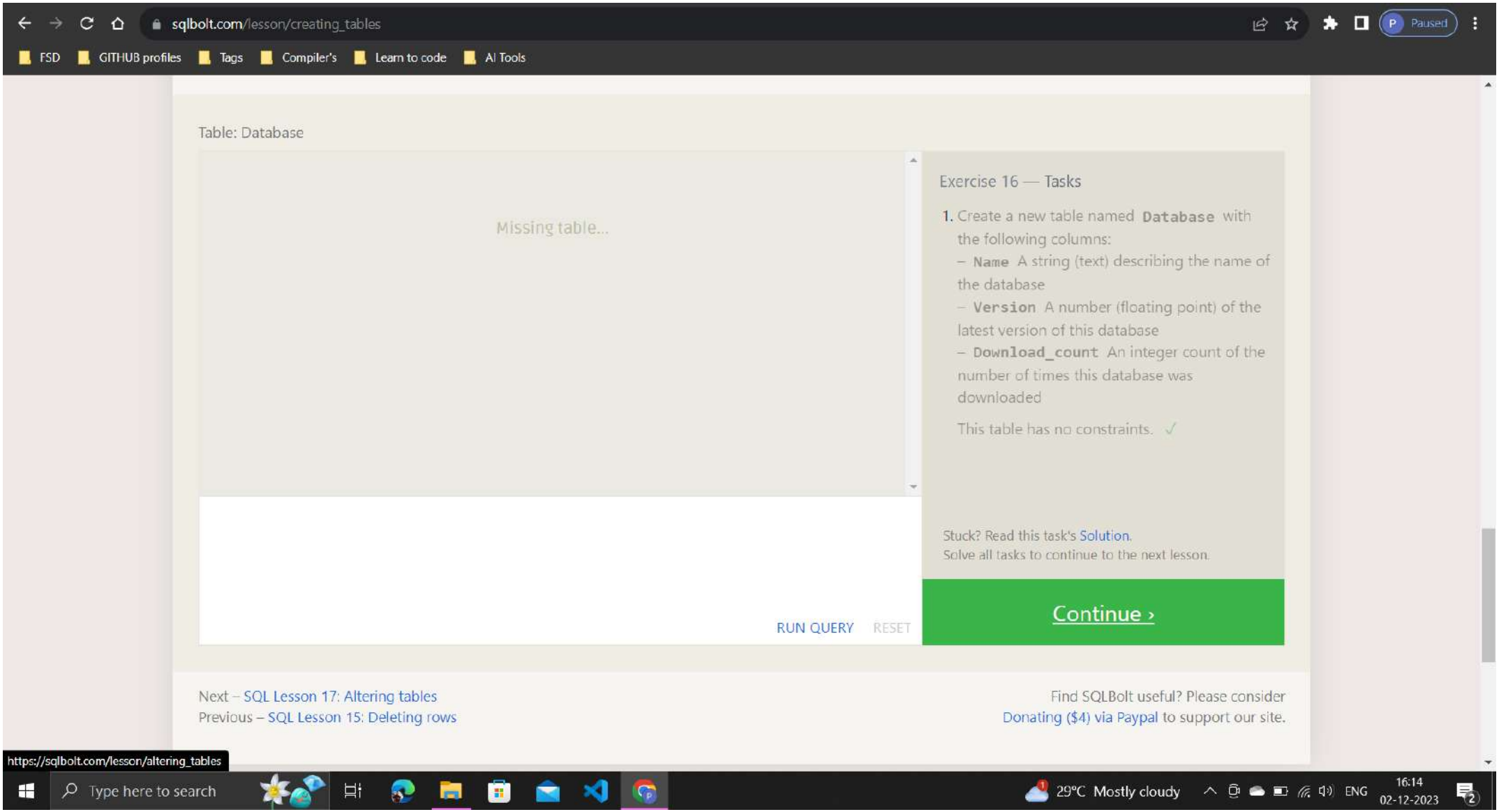
sqlbolt.com/lesson/creating_tables
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Table: Database
Missing table...
Exercise 16 — Tasks
1. Create a new table named Database with the following columns:
– Name A string (text) describing the name of the database
– Version A number (floating 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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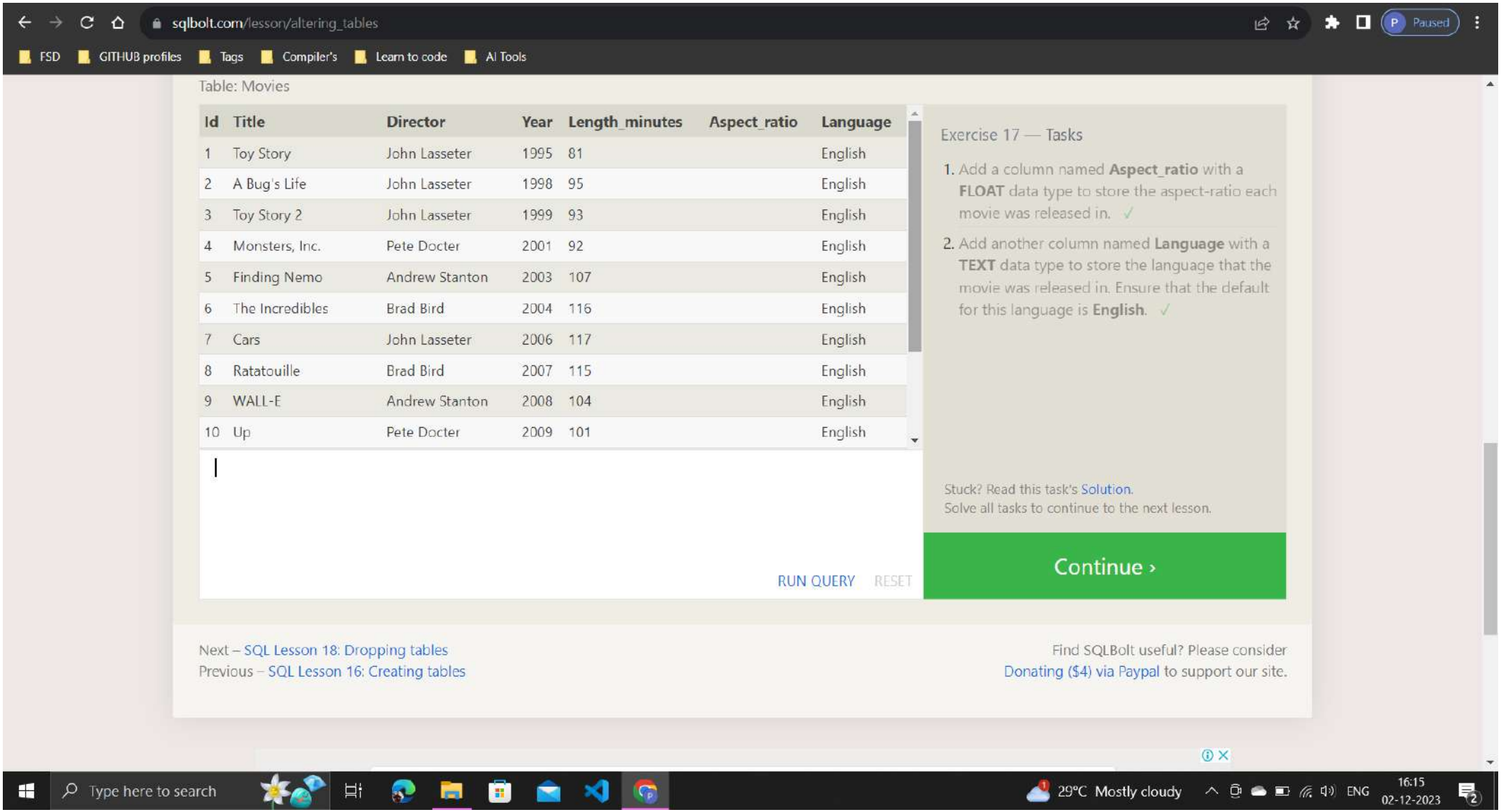
sqlbolt.com/lesson/altering_tables
Paused
FSD
GITHUB profiles
Tags
Compiler's
Learn to code
AI Tools
Table: Movies
Id Title Director Year Length_minutes Aspect_ratio Language
1 Toy Story John Lasseter 1995 81 English
2 A Bug's Life John Lasseter 1998 95 English
3 Toy Story 2 John Lasseter 1999 93 English
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
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
Previous – SQL Lesson 16: Creating tables
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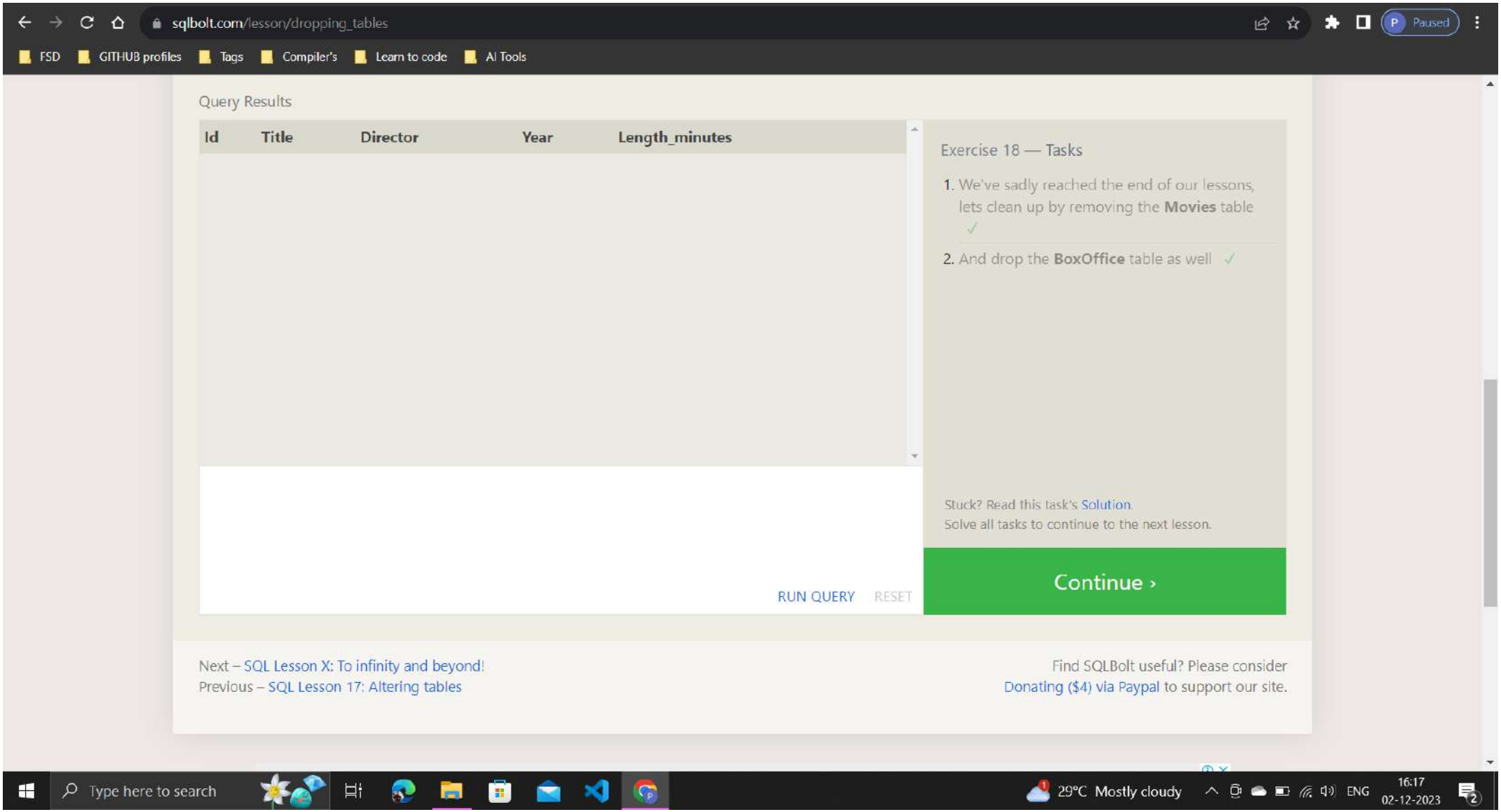
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Director
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Length_minutes
Exercise 18 — Tasks
1. We've sadly reached the end of our lessons, lets clean up by removing the Movies table
2. And drop the BoxOffice table as well
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
RUN QUERY
RESET
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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 specific database that you are using, especially since each database has its own set of features and optimizations.

If you have any suggestions on how to make the site better, you can get in touch using one of the links in the footer below.

And if you found the lessons useful, please consider donating ($4) via Paypal to support our site. Your contribution will help keep the servers running and allow us to improve and add even more material in the future.

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