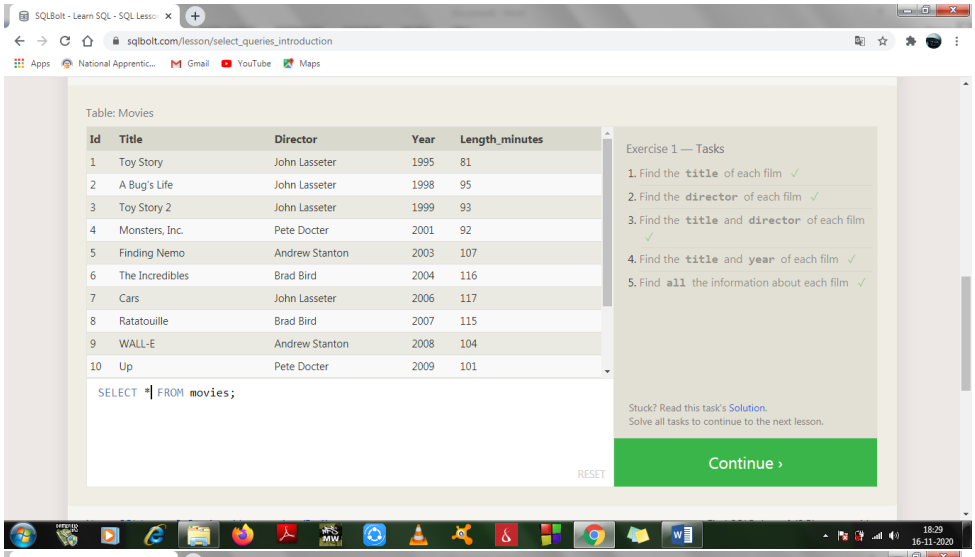
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Table: Movies
Id Title Director Year Length_minutes
1 Toy Story John Lasseter 1995 81
2 A Bug's Life John Lasseter 1998 95
3 Toy Story 2 John Lasseter 1999 93
4 Monsters, Inc. Pete Docter 2001 92
5 Finding Nemo Andrew Stanton 2003 107
6 The Incredibles 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 ›
18:29
16-11-2020

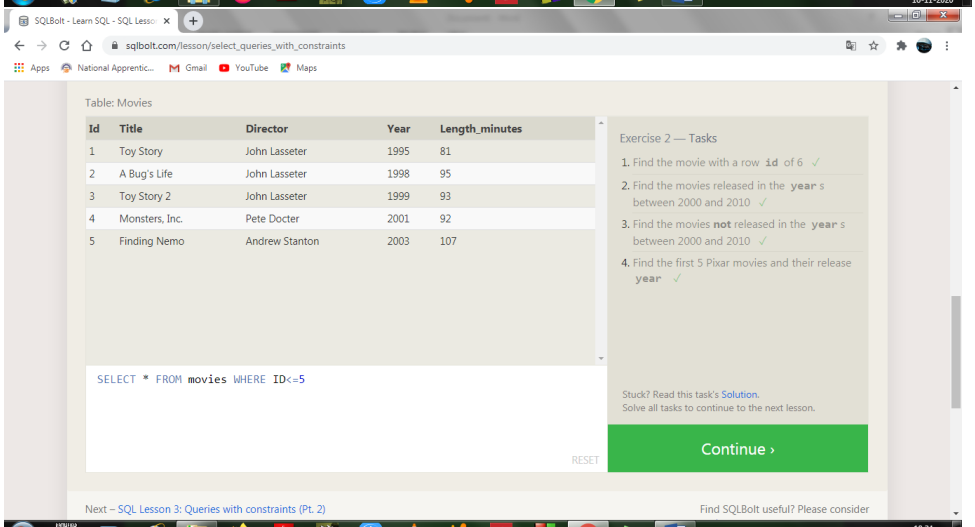
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Table: Movies
Id Title Director Year Length_minutes
1 Toy Story John Lasseter 1995 81
2 A Bug's Life John Lasseter 1998 95
3 Toy Story 2 John Lasseter 1999 93
4 Monsters, Inc. Pete Docter 2001 92
5 Finding Nemo Andrew Stanton 2003 107
SELECT * FROM movies WHERE ID<=5
RESET
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
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)
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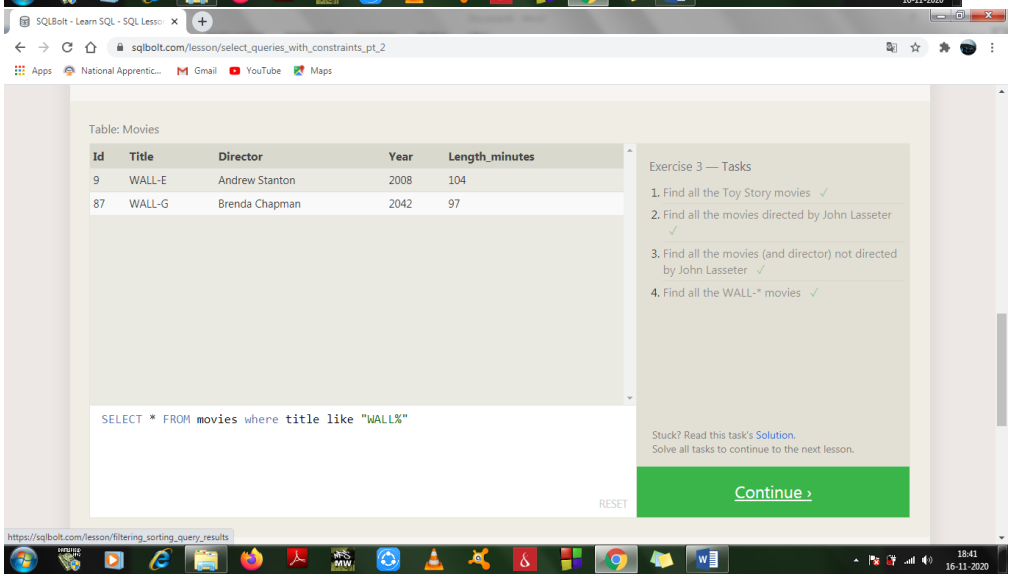
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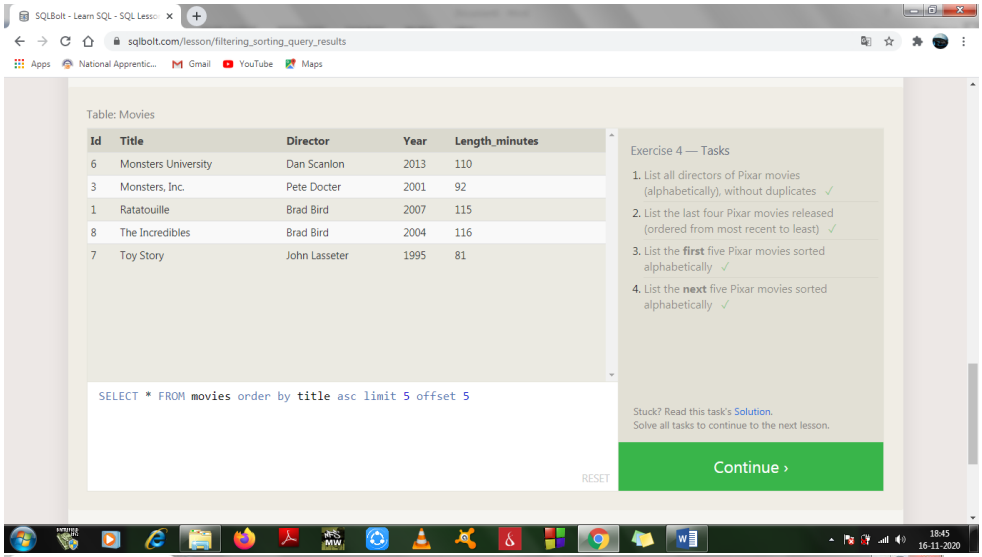
Maps
Table: Movies
Id Title Director Year Length_minutes
9 WALL-E Andrew Stanton 2008 104
87 WALL-G Brenda Chapman 2042 97
SELECT * FROM movies where title like "WALL%"
RESET
Exercise 3 — Tasks
1. Find all the Toy Story movies
2. Find all the movies directed by John Lasseter
3. Find all the movies (and 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 ›
https://sqlbolt.com/lesson/filtering_sorting_query_results
18:41
16-11-2020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Gmail
YouTube
Maps
Table: Movies
Id Title Director Year Length_minutes
6 Monsters University Dan Scanlon 2013 110
3 Monsters, Inc. Pete Docter 2001 92
1 Ratatouille Brad Bird 2007 115
8 The Incredibles Brad Bird 2004 116
7 Toy Story John Lasseter 1995 81
SELECT * 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 ›
18:45
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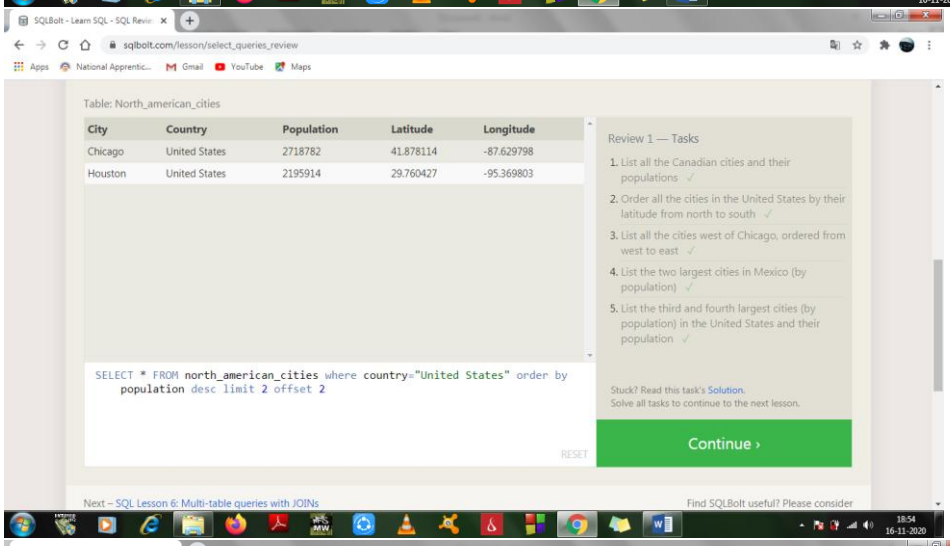
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Maps
Table: North_american_cities
City Country Population Latitude Longitude
Chicago United States 2718782 41.878114 -87.629798
Houston United States 2195914 29.760427 -95.369803
SELECT * FROM north_american_cities where country="United States" order 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
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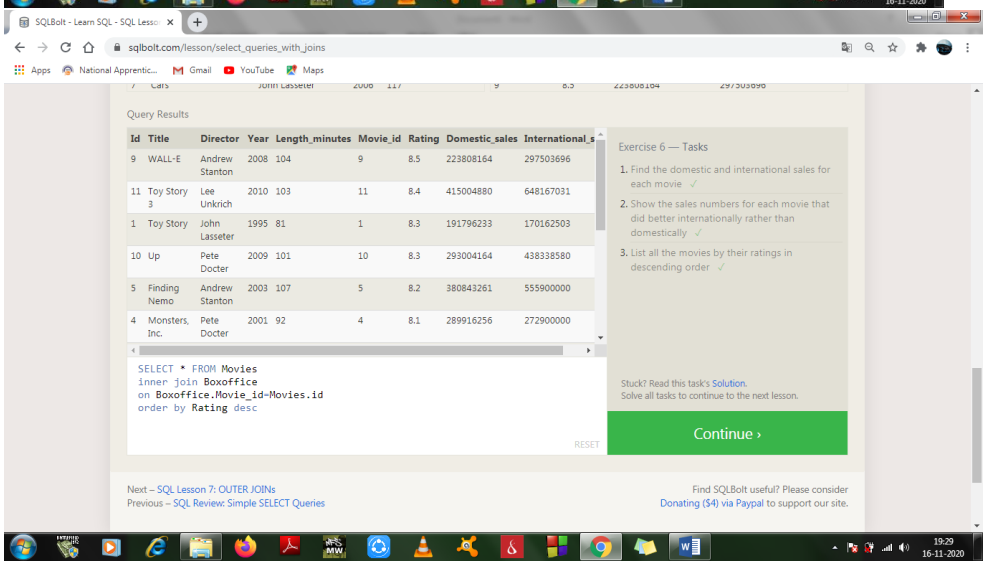
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Query Results
Id Title Director Year Length_minutes Movie_id Rating Domestic_sales International_s
9 WALL-E Andrew Stanton 2008 104 9 8.5 223808164 297503696
11 Toy Story 3 Lee Unkrich 2010 103 11 8.4 415004880 648167031
1 Toy Story John Lasseter 1995 81 1 8.3 191796233 170162503
10 Up Pete Docter 2009 101 10 8.3 293004164 438338580
5 Finding Nemo Andrew Stanton 2003 107 5 8.2 380843261 555900000
4 Monsters, Inc. Pete Docter 2001 92 4 8.1 289916256 272900000
SELECT * FROM Movies
inner join Boxoffice
on Boxoffice.Movie_id=Movies.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 ›
Next – SQL Lesson 7: OUTER JOINs
Previous – SQL Review: Simple SELECT Queries
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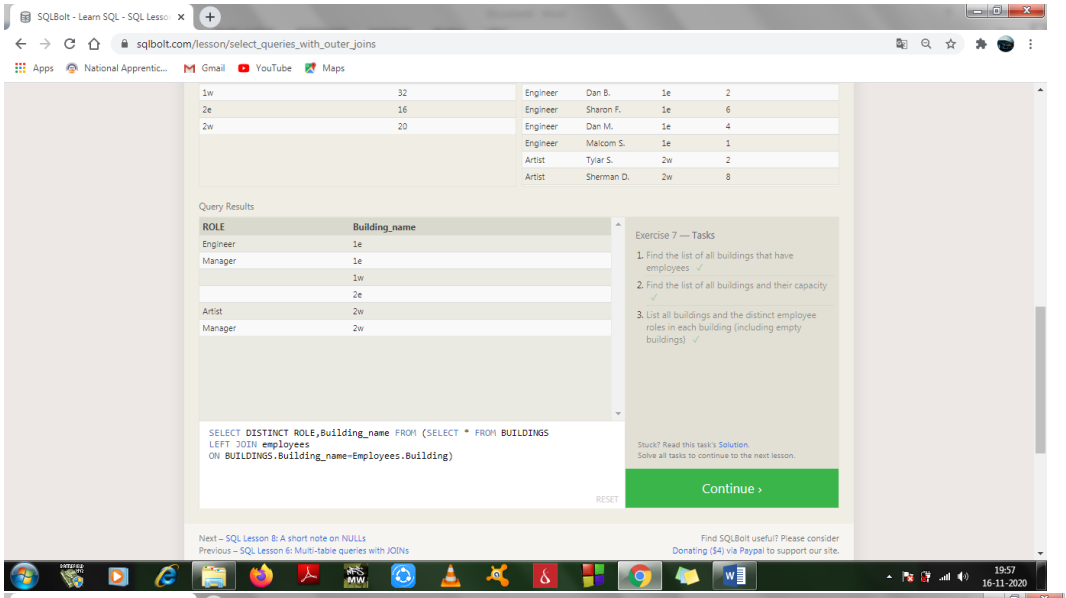
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1w 32
2e 16
2w 20
Engineer Dan B. 1e 2
Engineer Sharon F. 1e 6
Engineer Dan M. 1e 4
Engineer Malcom S. 1e 1
Artist Tylar S. 2w 2
Artist Sherman D. 2w 8
Query Results
ROLE Building_name
Engineer 1e
Manager 1e
1w
2e
Artist 2w
Manager 2w
Exercise 7 — 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)
SELECT DISTINCT ROLE,Building_name FROM (SELECT * FROM BUILDINGS
LEFT JOIN employees
ON BUILDINGS.Building_name=Employees.Building)
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
RESET
Continue ›
Next – SQL Lesson 8: A short note on NULLs
Previous – SQL Lesson 6: Multi-table queries with JOINs
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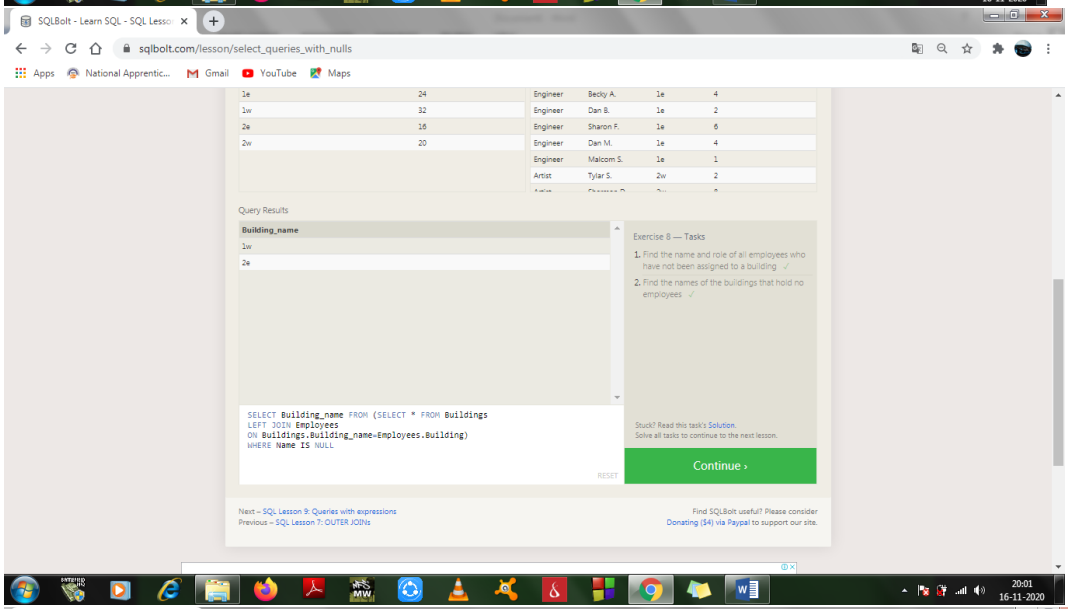
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1e 24
1w 32
2e 16
2w 20
Engineer Becky A. 1e 4
Engineer Dan B. 1e 2
Engineer Sharon F. 1e 6
Engineer Dan M. 1e 4
Engineer Malcom S. 1e 1
Artist Tylar S. 2w 2
Query Results
Building_name
1w
2e
Exercise 8 — Tasks
1. Find the name and role of all employees who have not been assigned to a building
2. Find the names of the buildings that hold no employees
SELECT Building_name FROM (SELECT * FROM Buildings
LEFT JOIN Employees
ON Buildings.Building_name=Employees.Building)
WHERE Name IS NULL
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
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Next – SQL Lesson 9: Queries with expressions
Previous – SQL Lesson 7: OUTER JOINs
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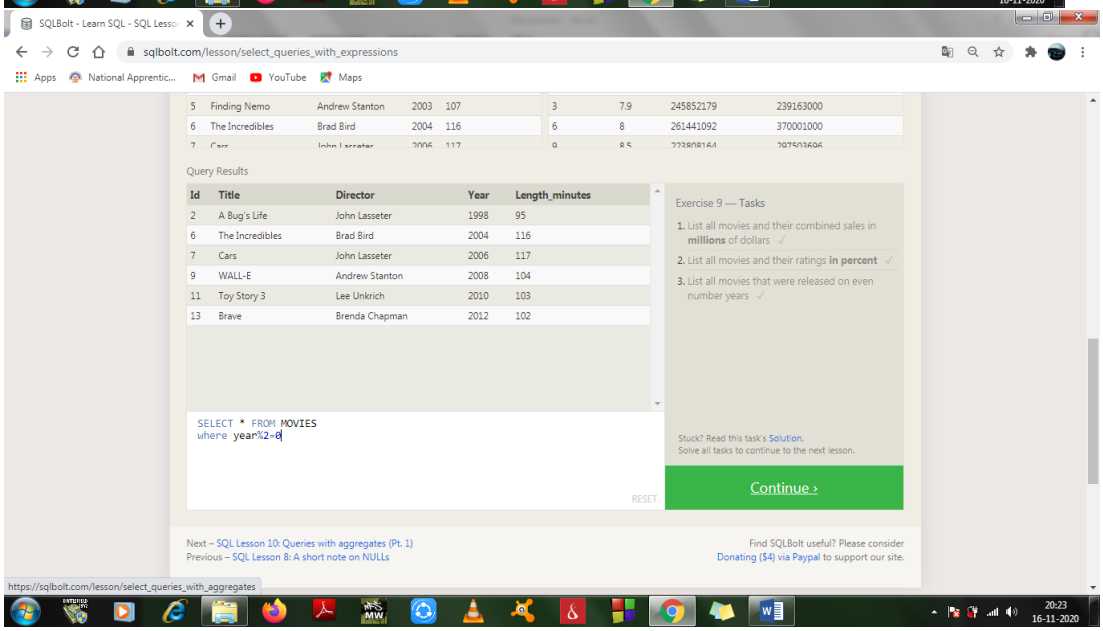
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5 Finding Nemo Andrew Stanton 2003 107 3 7.9 245852179 239163000
6 The Incredibles Brad Bird 2004 116 6 8 261441092 370001000
Query Results
Id Title Director Year Length_minutes
2 A Bug's Life John Lasseter 1998 95
6 The Incredibles Brad Bird 2004 116
7 Cars John Lasseter 2006 117
9 WALL-E Andrew Stanton 2008 104
11 Toy Story 3 Lee Unkrich 2010 103
13 Brave Brenda Chapman 2012 102
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
SELECT * FROM MOVIES
where year%2=0
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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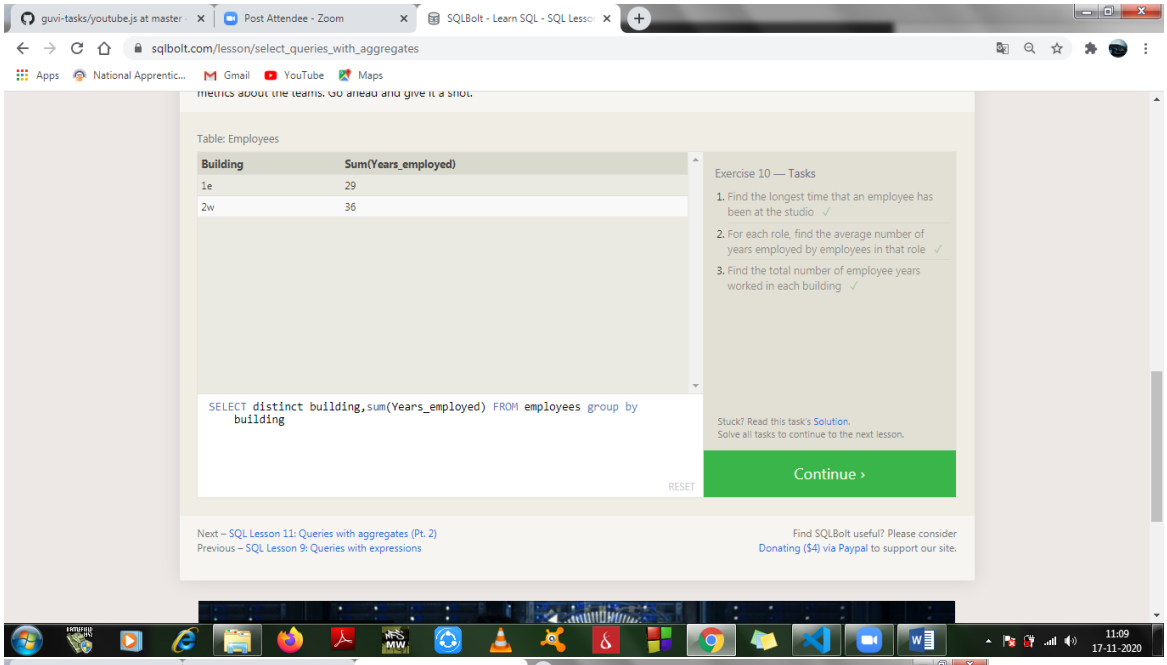
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Table: Employees
Building
Sum(Years_employed)
1e
29
2w
36
Exercise 10 — Tasks
1. Find the longest time that an employee has been at the studio
2. For each role, find the average number of years employed by employees in that role
3. Find the total number of employee years worked in each building
SELECT distinct building,sum(Years_employed) FROM employees group by building
RESET
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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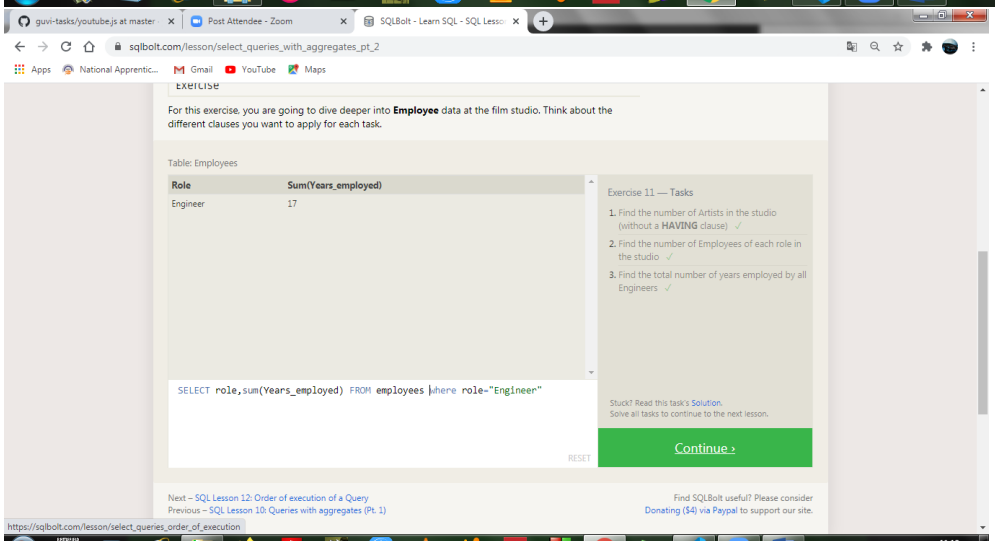
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For this exercise, you are going to dive deeper into Employee data at the film studio. Think about the different clauses you want to apply for each task.
Table: Employees
Role
Sum(Years_employed)
Engineer
17
Exercise 11 — Tasks
1. Find the number of 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
SELECT role,sum(Years_employed) FROM employees where role="Engineer"
RESET
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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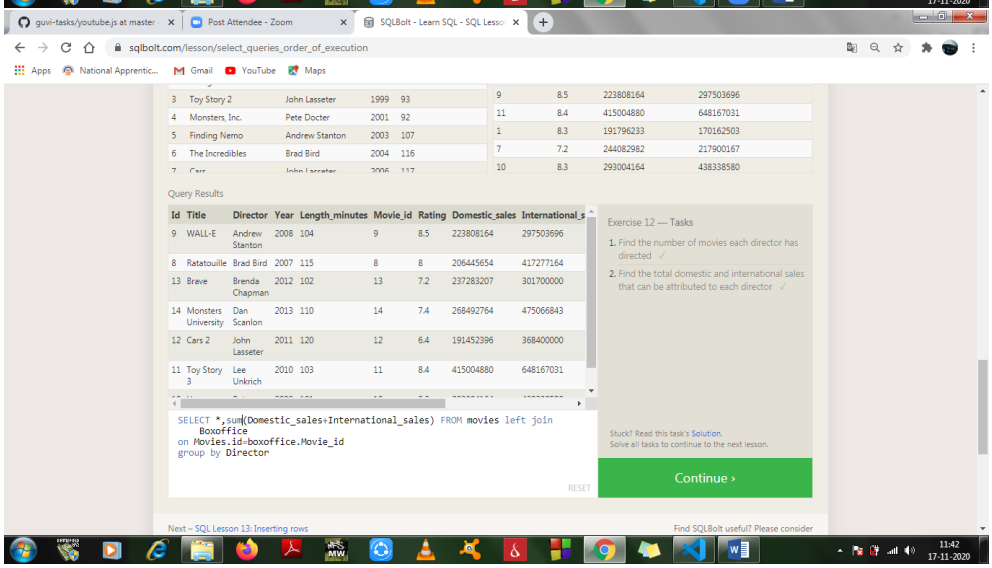
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3 Toy Story 2 John Lasseter 1999 93
4 Monsters, Inc. Pete Docter 2001 92
5 Finding Nemo Andrew Stanton 2003 107
6 The Incredibles Brad Bird 2004 116
9 8.5 223808164 297503696
11 8.4 415004880 648167031
1 8.3 191796233 170162503
7 7.2 244082982 217900167
10 8.3 293004164 438338580
Query Results
Id Title Director Year Length_minutes Movie_id Rating Domestic_sales International_s
9 WALL-E Andrew Stanton 2008 104 9 8.5 223808164 297503696
8 Ratatouille Brad Bird 2007 115 8 8 206445654 417277164
13 Brave Brenda Chapman 2012 102 13 7.2 237283207 301700000
14 Monsters University Dan Scanlon 2013 110 14 7.4 268492764 475066843
12 Cars 2 John Lasseter 2011 120 12 6.4 191452396 368400000
11 Toy Story 3 Lee Unkrich 2010 103 11 8.4 415004880 648167031
SELECT *,sum(Domestic_sales+International_sales) FROM movies left 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.
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Next – SQL Lesson 13: Inserting rows
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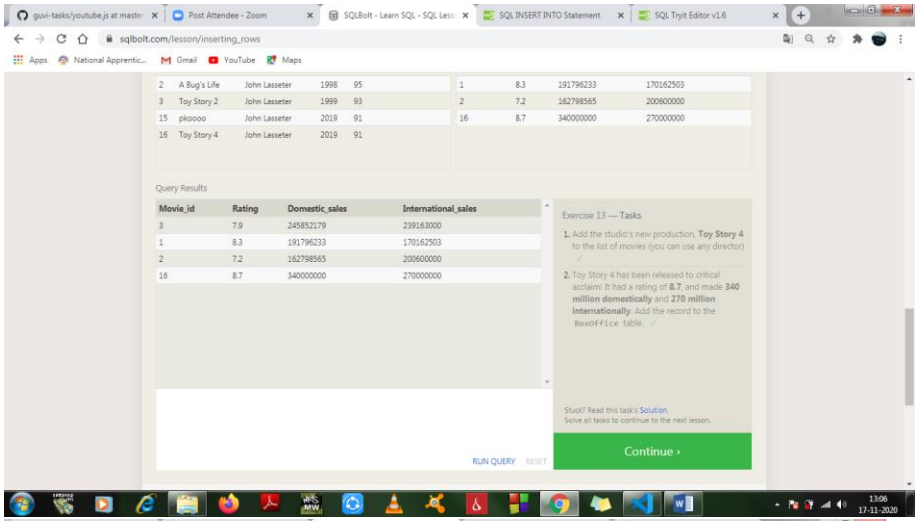
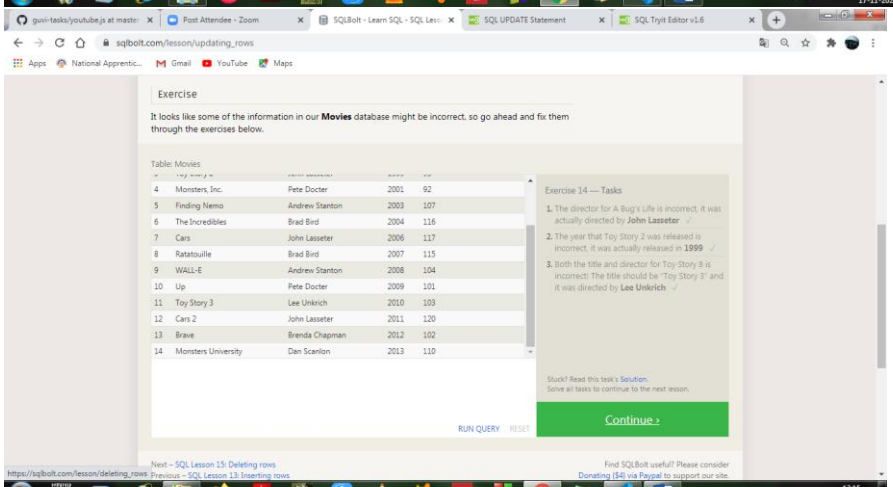

sqlbolt.com/lesson/inserting_rows
Query Results
Movie_id Rating Domestic_sales International_sales
3 7.9 245852179 239163000
1 8.3 191796233 170162503
2 7.2 162798565 200600000
16 8.7 340000000 270000000
Exercise 13 — Tasks
1. Add the studio's new production, Toy Story 4 to the list of movies (you can 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 ›


sqlbolt.com/lesson/updating_rows
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
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.
RUN QUERY
RESET
Continue ›
Next – SQL Lesson 15: Deleting rows
Previous – SQL Lesson 13: Inserting rows
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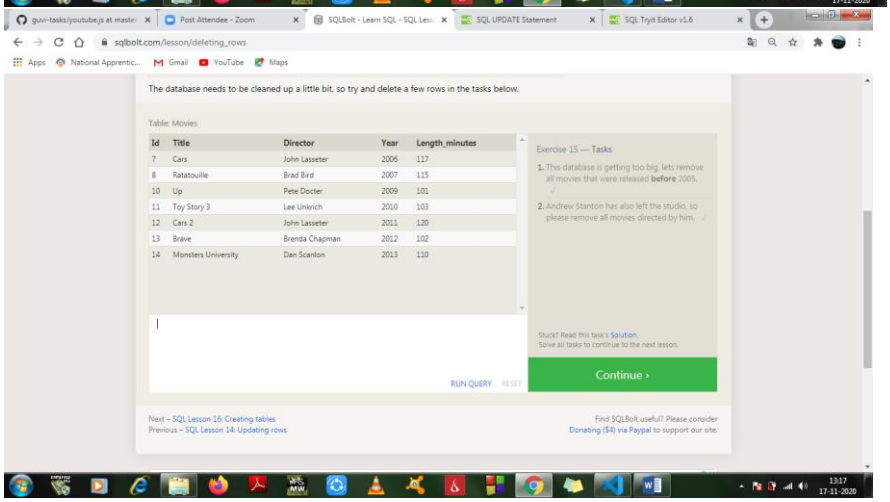
sqlbolt.com/lesson/deleting_rows
The database needs to be cleaned up a little bit, so try and delete a few rows in the tasks below.
Table: Movies
Id Title Director Year Length_minutes
7 Cars John Lasseter 2006 117
8 Ratatouille Brad Bird 2007 115
10 Up Pete Docter 2009 101
11 Toy Story 3 Lee Unkrich 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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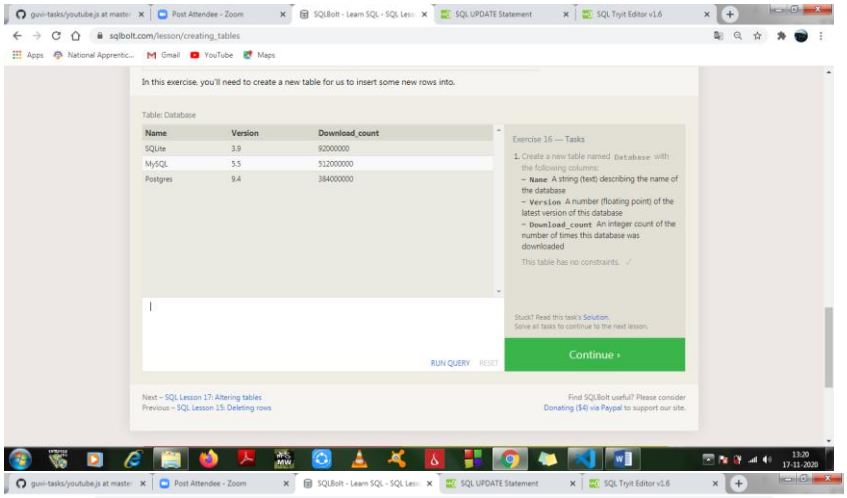
sqlbolt.com/lesson/creating_tables
In this exercise, you'll need to create a new table for us to insert some new rows into.
Table: Database
Name | Version | Download_count
SQLite | 3.9 | 92000000
MySQL | 5.5 | 512000000
Postgres | 9.4 | 384000000
Exercise 16 — Tasks
1. Create a new table named Database 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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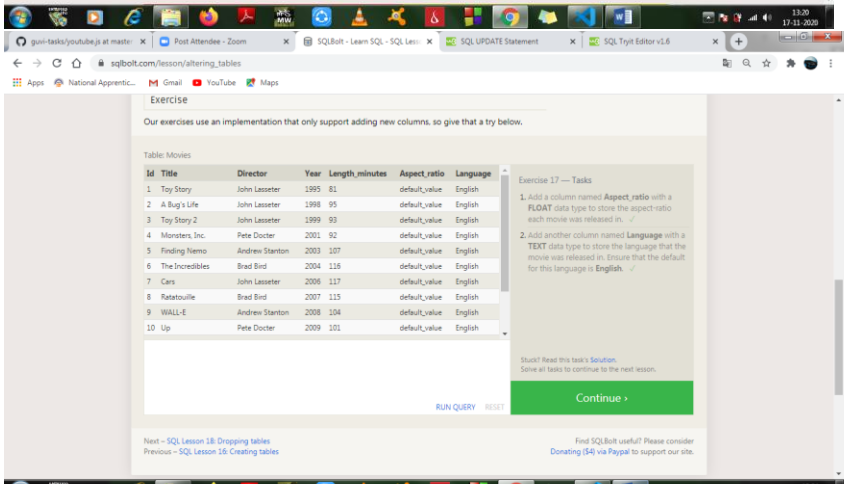
sqlbolt.com/lesson/altering_tables
Exercise
Our exercises use an implementation that only support adding new columns, so give that a try below.
Table: Movies
Id | Title | Director | Year | Length_minutes | Aspect_ratio | Language
1 | Toy Story | John Lasseter | 1995 | 81 | default_value | English
2 | A Bug's Life | John Lasseter | 1998 | 95 | default_value | English
3 | Toy Story 2 | John Lasseter | 1999 | 93 | default_value | English
4 | Monsters, Inc. | Pete Docter | 2001 | 92 | default_value | English
5 | Finding Nemo | Andrew Stanton | 2003 | 107 | default_value | English
6 | The Incredibles | Brad Bird | 2004 | 116 | default_value | English
7 | Cars | John Lasseter | 2006 | 117 | default_value | English
8 | Ratatouille | Brad Bird | 2007 | 115 | default_value | English
9 | WALL-E | Andrew Stanton | 2008 | 104 | default_value | English
10 | Up | Pete Docter | 2009 | 101 | default_value | 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 ›
Next – SQL Lesson 18: Dropping tables
Previous – SQL Lesson 16: Creating tables
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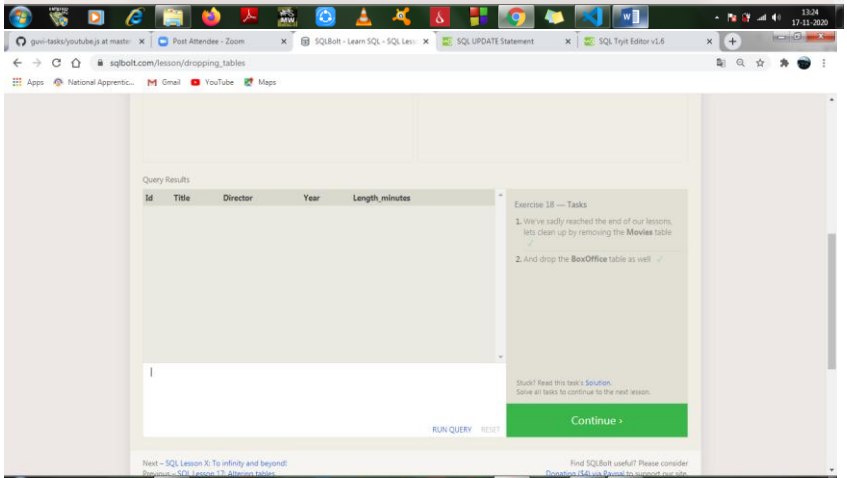
sqlbolt.com/lesson/dropping_tables
Query Results
Id | Title | Director | Year | Length_minutes
Exercise 18 — Tasks
1. We've sadly reached the end of our lessons, lets clean up by removing the Movies table
2. And drop the BoxOffice table as well
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.
RUN QUERY
RESET
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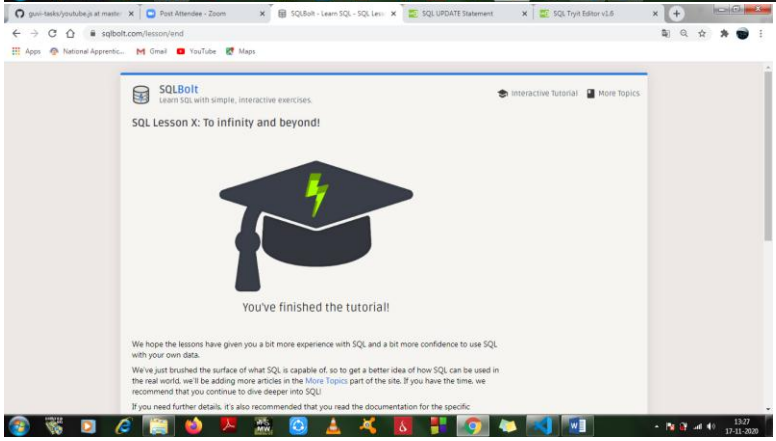
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SQLBolt
Learn SQL with simple, interactive exercises.
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SQL Lesson X: To infinity and beyond!
You've finished the tutorial!
We hope the lessons have given you a bit more experience with SQL and a bit 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