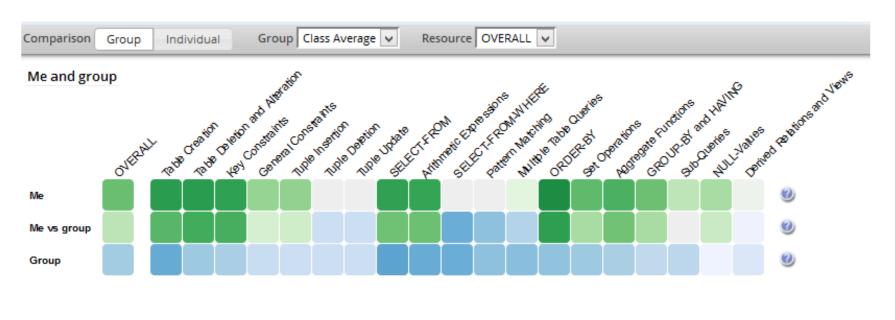
Mastery Grids User Manual

PAWS Lab
School of Computing and Information
University of Pittsburgh



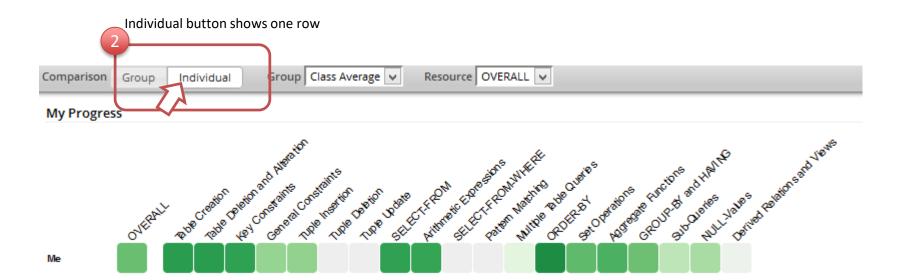
Load the rest of learners



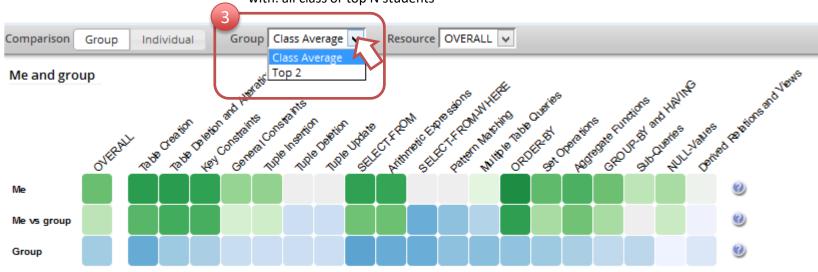
This tool is a visualization of your progress in different topics. Darker means more progress



- First row (Me) shows **your progress** (Darker green means more progress on that topic)
- Third row (Group) shows the **average of your classmates progress** (Darker blue means more progress on that topic)
- Second row(Me vs group) **compares your progress with your classmates** (Darker green means you have more progress than the group; darker blue means they have more progress than you; grey means equal progress)

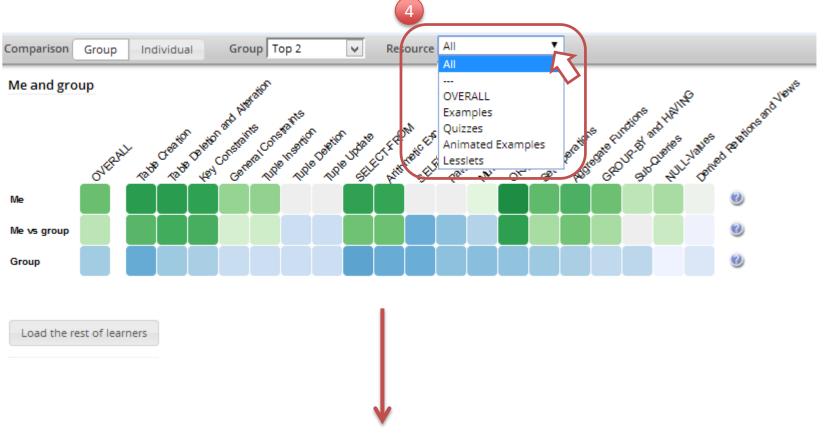


Select the group to compare with: all class or top N students



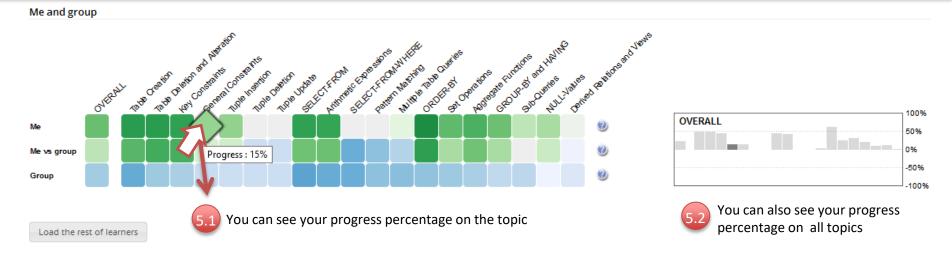
Load the rest of learners

Select which type of resource progress is displayed in the grids (All, Overall, Examples, Quizzes, Animated Examples, Lesslets)

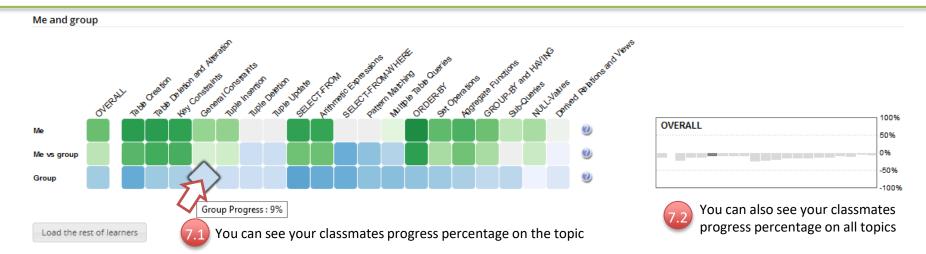


- OVERALL shows progress according to examples and quizzes
- Examples shows progress only on examples
- Quizzes shows progress only on quizzes (interactive questions)
- Animated Examples shows progress only on animated examples
- Lesslets shows progress only on lesslets
- All displays progress averaging across all content types

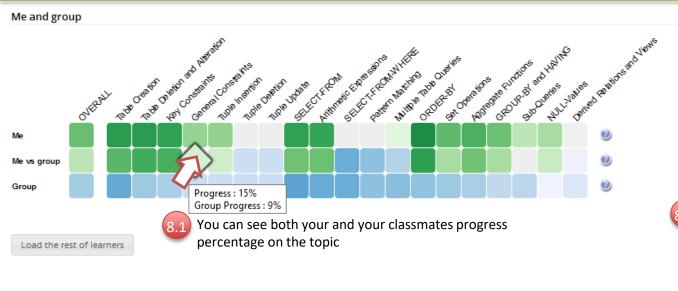
Me and group Table Deleter and Albertation Denned As Bridge and Views GROUP of and Having SELECTROMANHEE Arthresic Expressions MINDE TO DE CHE'ES Addressed Fundings Canada Constants SELECTERON Patern Matthe Set Operations Tupe Insend Tuple Deletion Tuple Utdate MILLYanes Me Help explains the colors (darker means Me vs group more progress) Group Roll the mouse cursor over the a topic cell on Me row Load the rest of learners

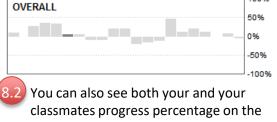


Me and group Denied to Bridge and Views Table De letter and Albertator SELECTEROMANHER GROUP BY and HAVING Anthretic Exple signific MINDE State Cheries AND TE GRAPE PURCHERS Caneda Constants Patern Mathies SELECTERON SA OPERATORS Table Cleaning Tuple Inspirior Tuple Deletion THE LINE HULLWalles Me Me vs group Group Roll the mouse cursor over the a topic cell on **Group** row Load the rest of learners



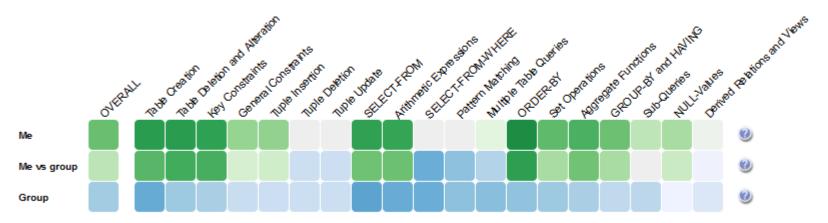
Me and group Denned Assertions and Views Table Debitor and Authorities GROUP BY and HAVING SELECTROMANHER Arthretic Expressions MINDE TO DE CHE'ES Nathagata Europions Control Constitutes Pattern Martines SELECTERON Set Operations Table Cleaning Tuple Insenior Tuple Destier Tuple Utdate MULTValles Me Me vs group Group Roll the mouse cursor over the a topic cell on Me vs Group row Load the rest of learners





- all topics
 - Positive bars show your progress
 - Negative bars show your classmates progress

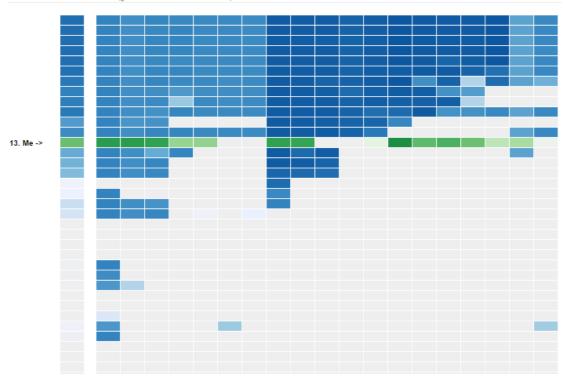
Me and group



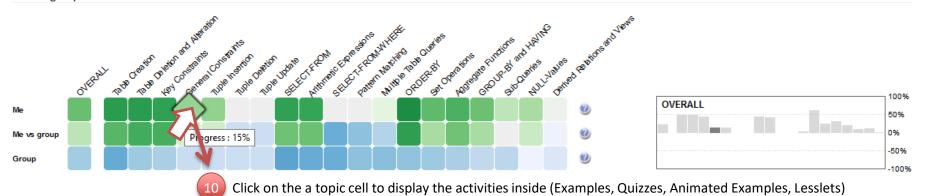
Load the rest of learners

Click button to load the list of other students (does not show usernames) and shows in which position you are in terms of progress

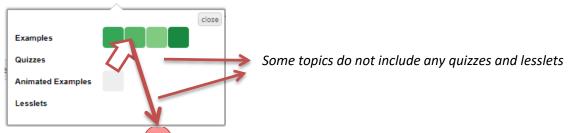
Students in the class (you are 13rd out of 61)



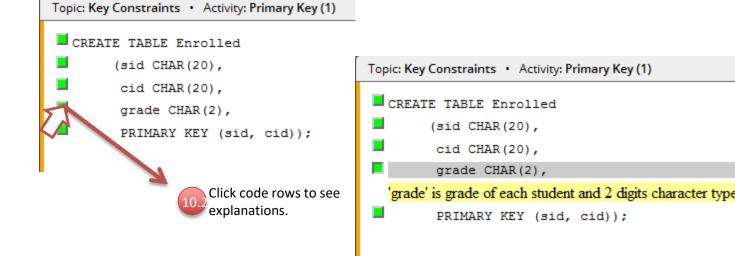


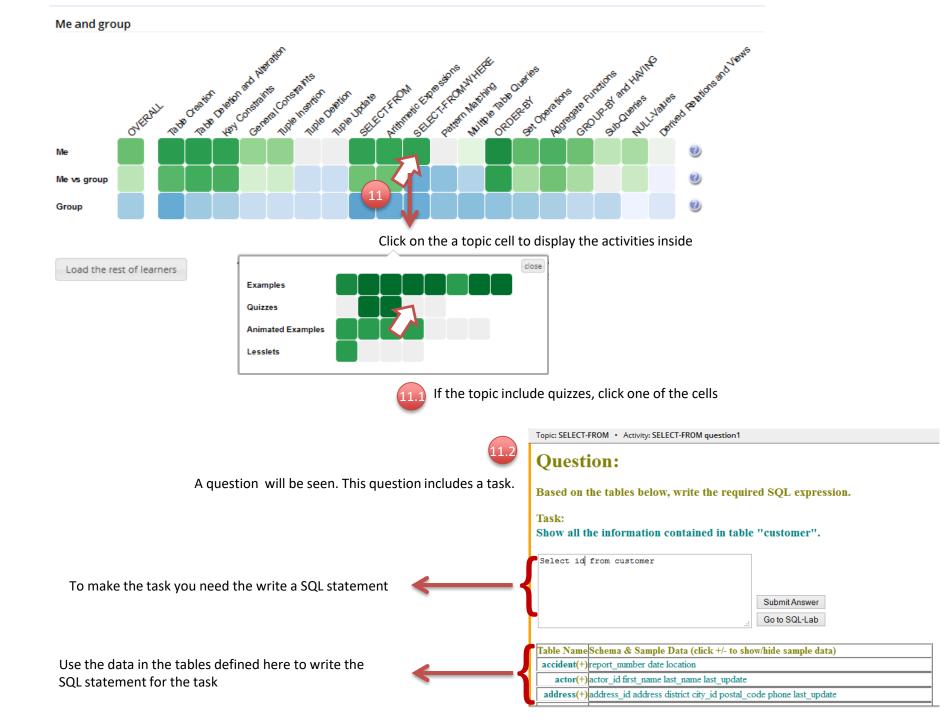


Load the rest of learners



10.1 Click on the cells to see examples. Examples shows a piece of SQL code





Question:

Based on the tables below, write the required SQL expression.

Task:

Show all the information contained in table "customer".

Select id from customer



11.3Write a SQL statement and click the "Submit Answer" button

Table Name Schema & Sample Data (click +/- to show/hide sample data) accident(+) report_number date location actor(+) actor_id first_name last_name last_update address(+)address_id address district city_id postal_code phone last_update

Topic: SELECT-FROM • Activity: SELECT-FROM question1

Question:

Based on the tables below, write the required SQL expression.

Task:

Show all the information contained in table "customer".

Select id from customer

Sorry, please revise your answer and try again.

Try it again

Go to SQL-Lab

11.4 If the answer is wrong, this feedback is shown

Table Name Schema & Sample Data (click +/- to show/hide sample data) accident(+) report number date location actor(+) actor_id first_name last_name last_update address (+) address id address district city id postal code phone last update

Question:

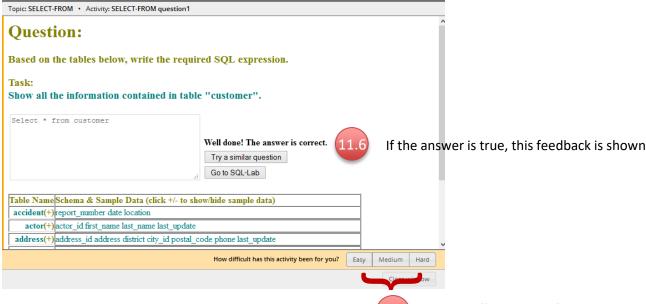
Select id from customer

Based on the tables below, write the required SQL expression.

Task:

Show all the information contained in table "customer".





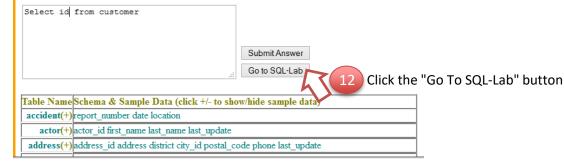
Submit difficulty level for the question

Based on the tables below, write the required SQL expression.

Task:

Show all the information contained in table "customer".

If you want to try SQL statements before submit the question You can use "Go To SQL-Lab" button



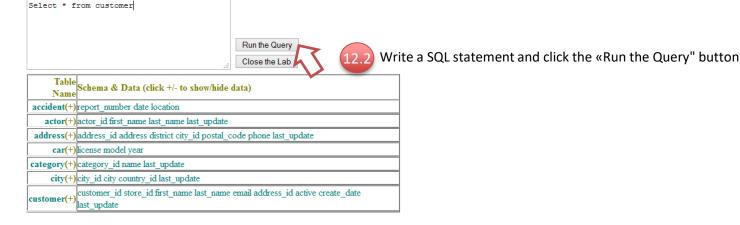
SQLLab for question similar to

Task:

Show all the information contained in table "customer".

12.1 A new window will be open

Here is a field that you can work with a sample DB to find out the solution to the question, you can





12.3 The Results of the SQL query is shown

The result for query: Select * from customer

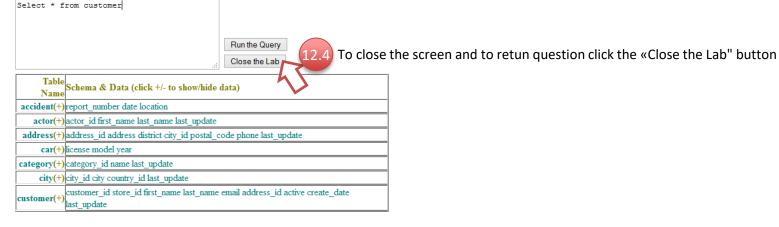
customer_id	store_id	first_name	last_name	email	address_id	active	create_date	last_update
1	1	MARY	SMITH	MARY.SMITH@sakilacustomer.org	5	1	2006-02-14 22:04:36.0	2006-02-15 04:57:20.0
2	1	PATRICIA	JOHNSON	PATRICIA.JOHNSON@sakilacustomer.org	6	1	2006-02-14 22:04:36.0	2006-02-15 04:57:20.0
3	1	LINDA	WILLIAMS	LINDA.WILLIAMS@sakilacustomer.org	7	1	2006-02-14 22:04:36.0	2006-02-15 04:57:20.0
4	2	BARBARA	JONES	BARBARA.JONES@sakilacustomer.org	8	1	2006-02-14 22:04:36.0	2006-02-15 04:57:20.0
5	1	ELIZABETH	BROWN	ELIZABETH.BROWN@sakilacustomer.org	9	1	2006-02-14 22:04:36.0	2006-02-15 04:57:20.0
6	2	JENNIFER	DAVIS	JENNIFER.DAVIS@sakilacustomer.org	10	1	2006-02-14 22:04:36.0	2006-02-15 04:57:20.0
7	1	MARIA	MILLER	MARIA.MILLER@sakilacustomer.org	11	1	2006-02-14 22:04:36.0	2006-02-15 04:57:20.0

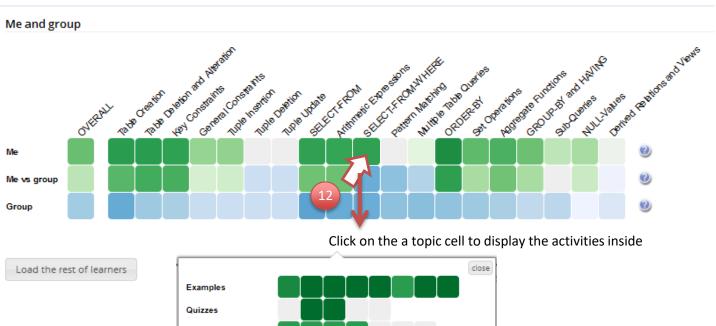
SQLLab for question similar to

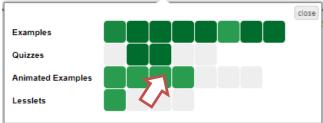
Task:

Show all the information contained in table "customer".

Here is a field that you can work with a sample DB to find out the solution to the question, you can

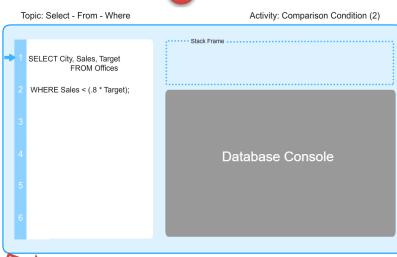




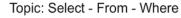


If the topic include animated examples, click one of the cells

An animation activity will be seen. This animation includes an SQL statement.

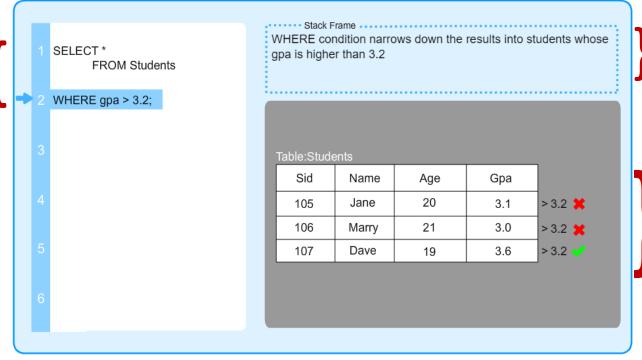


Press the play button to start the animation.



Activity: Comparison Condition (1)

Here you can see the which part of the SQL statement is being executed by the animation. In this case, we are at 2nd step.



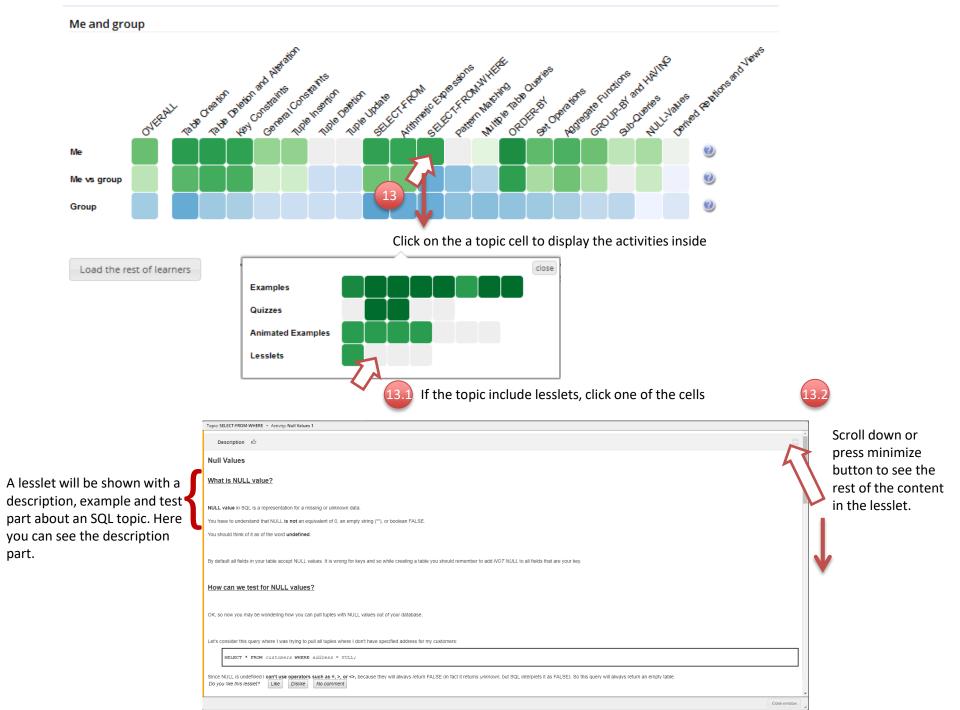
Here, you can see an explanation based on the animation step.

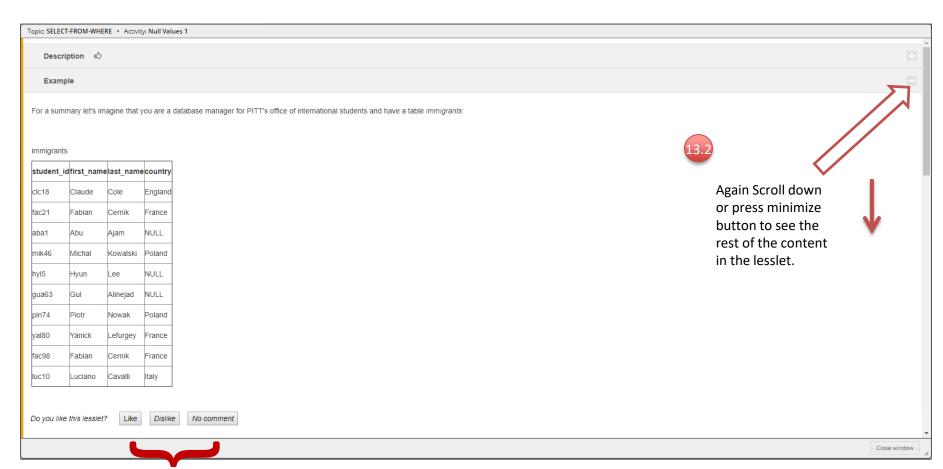
This panel shows the states of the tables based on the SQL statement steps.

Moved one step backwards

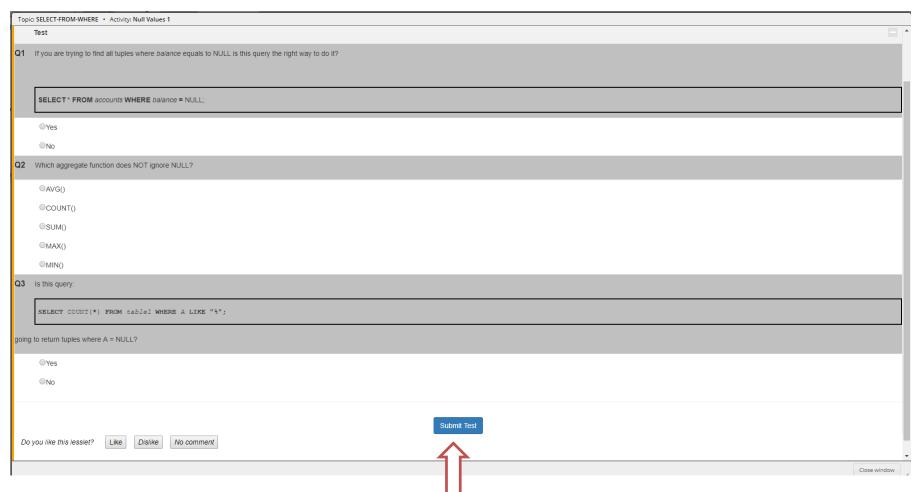


You can press go to previous and next animation steps





You can like or dislike the lesslet which provide feedback to the content provider about how helpful this content is.



Here, you can see the test part of the lesslet. Following the description you have read and the example you have practice, you can test your understanding in **Test** section.

13.3

Press Submit Test and submit your answers.