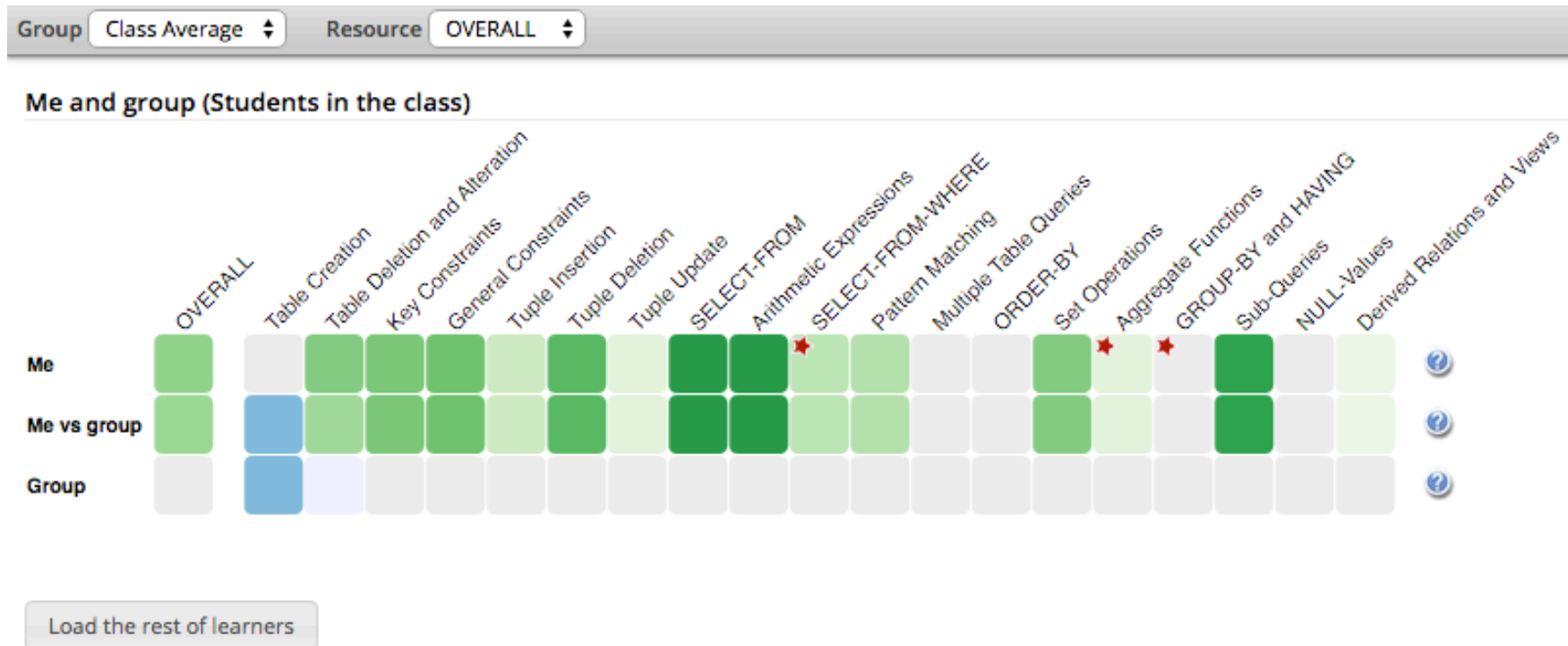




Mastery Grids User Manual

PAWS Lab
School Of Information Sciences
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- 1 Group button shows three comparison grids.
Select the group to compare with: all class or top 5 students

Group: Class Average (dropdown)
Resource: OVERALL (dropdown)
Me and (dropdown)
Me vs group (dropdown)
Group (dropdown)

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

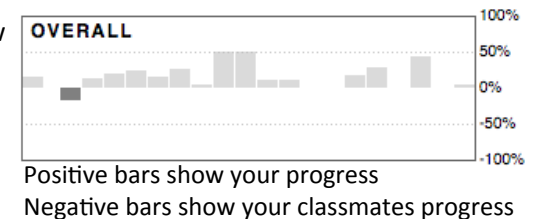
3 Help explains the colors (darker means more progress)

	OVERALL	Table Creation	Table Deletion and Alteration	Key Constraints	General Concepts	Tuple Insertion	Tuple Deletion	Tuple Update	SELECT-FROM	Arithmetic Expressions	SELECT-FROM-WHERE	Pattern Matching	Multiple Table Queries	ORDER-BY	Set Operations	Aggregate Functions	GROUP-BY and HAVING	Sub-Queries	NULL-Values	Derived Relations and Views
Me	Dark Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
Me vs group	Dark Green	Blue	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
Group	Light Green	Blue	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green

- 4
- The first row "Me" shows **your progress** in topics (darker green means more progress on the topic)
 - The third row "Group" shows the average progress of **your classmates** (darker blue means more progress on that topic)
 - The 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)

5 Roll cursor over a topic cell in "Me", "Me vs group", "Group" row to see progress percentage of you, you vs group, and group in the topic itself (tooltip) and compared to all topics (bar chart)

Progress : 28%



6 Click on a topic cell to display activities inside (Examples, Quizzes)
The red star shows topic/activity that system recommends to you to maximize your knowledge in SQL concepts

7 Click on the "Examples" cells to see examples.
An example shows a piece of SQL code

Topic: Aggregate Functions • Activity: Aggregate Functions (2)

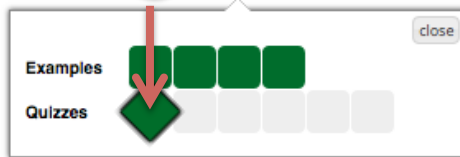
```
SELECT AVG(balance)
FROM account
```

```
WHERE branch_name = 'Perryridge';
```

This condition is to limit the retrieved data to 'Perryridge' branch.

- 8 Click the code row (green bullet) to see explanations for the example line

9 Click on a quiz cell to see the question that includes a task



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
```

10 To make the task you need to write a SQL statement here

Submit Answer

Go to SQL-Lab

14

If you want to try SQL statements before submitting the question, you can use "Go To SQL-Lab" button. The following window will be open.

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

11 Use data in the tables defined here to write the SQL statement. Be aware that the tables show a sample of the data and they contains many more tuples.

12 Write a SQL statement and click the "Submit Answer" button
If the answer is true, this feedback is shown

```
Select * from customer
```

Well done! The answer is correct.

Try a similar question

Go to SQL-Lab

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

How difficult has this activity been for you?

Easy

Medium

Hard

13 Select a level to submit difficulty level for the question

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 :

```
Select * from customer
```

Run the Query

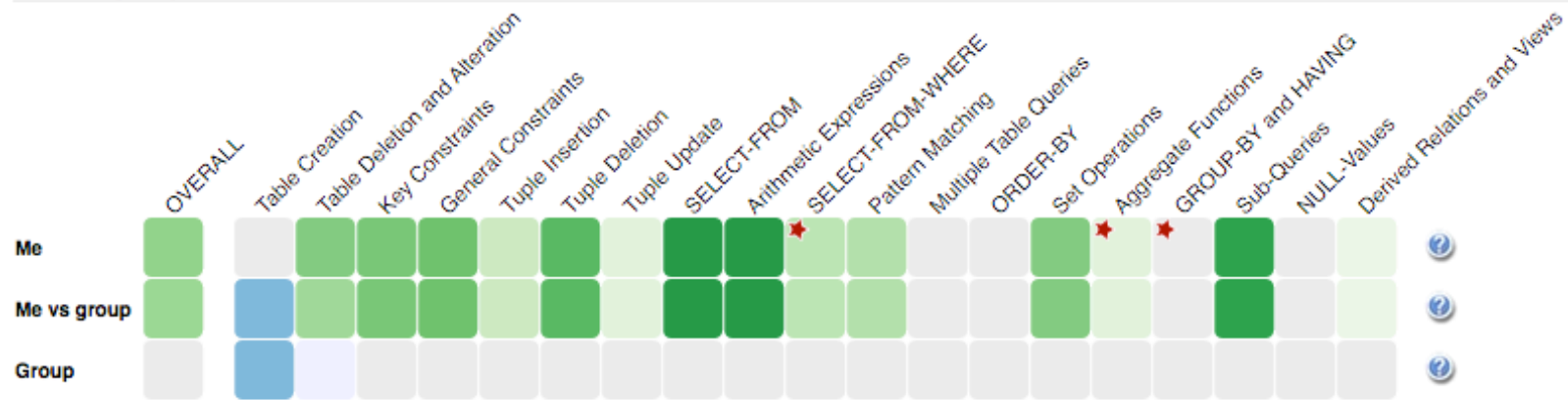
Close the Lab

Table Name	Schema & Data (click +/- to show/hide 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
car(+)	license model year
category(+)	category_id name last_update
city(+)	city_id city country_id last_update
customer(+)	customer_id store_id first_name last_name email address_id active create_date last_update

15

Write a SQL statement and click the «Run the Query" button. To close the screen and to return to the question, click «Close the Lab" button

Me and group (Students in the class)



Load the rest of learners

16 Click the above 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

