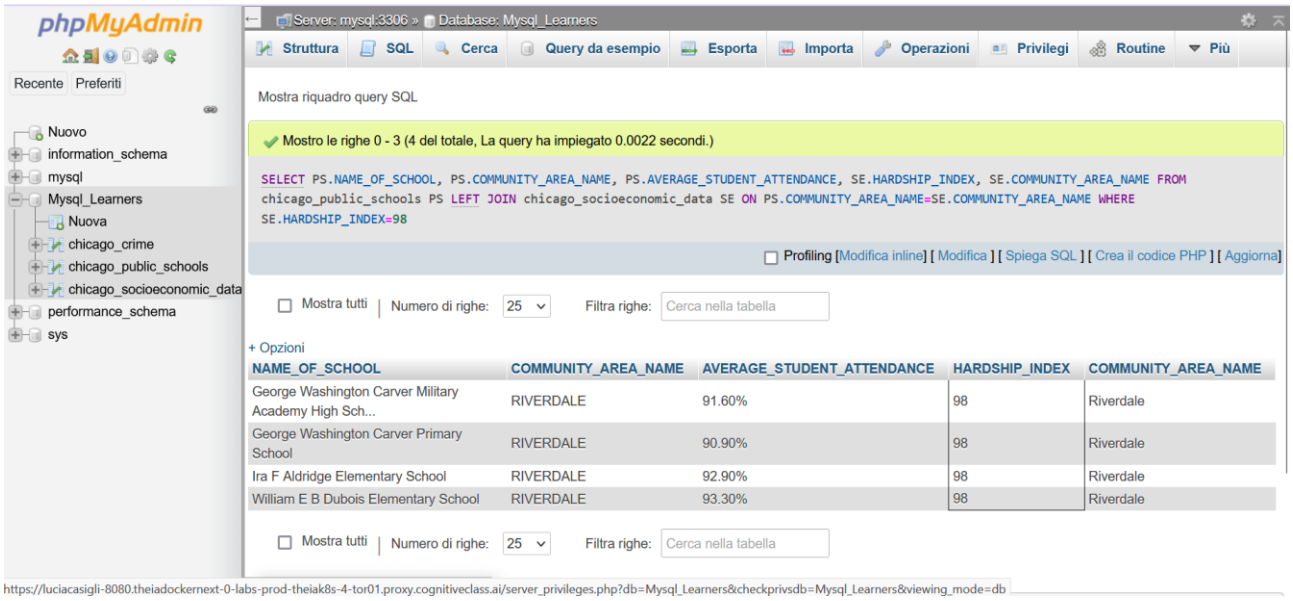
Exercise 1: Using Joins

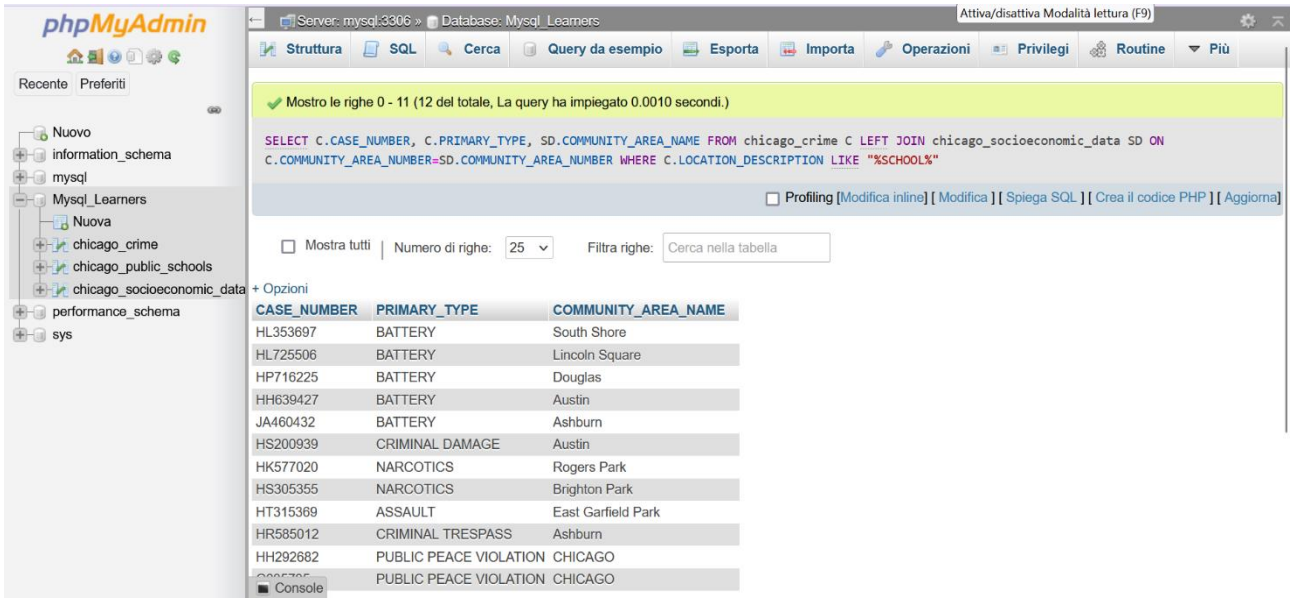
Question 1

- Write and execute a SQL query to list the school names, community names and average attendance for communities with a hardship index of 98.



Question 2

- Write and execute a SQL query to list all crimes that took place at a school. Include case number, crime type and community name.



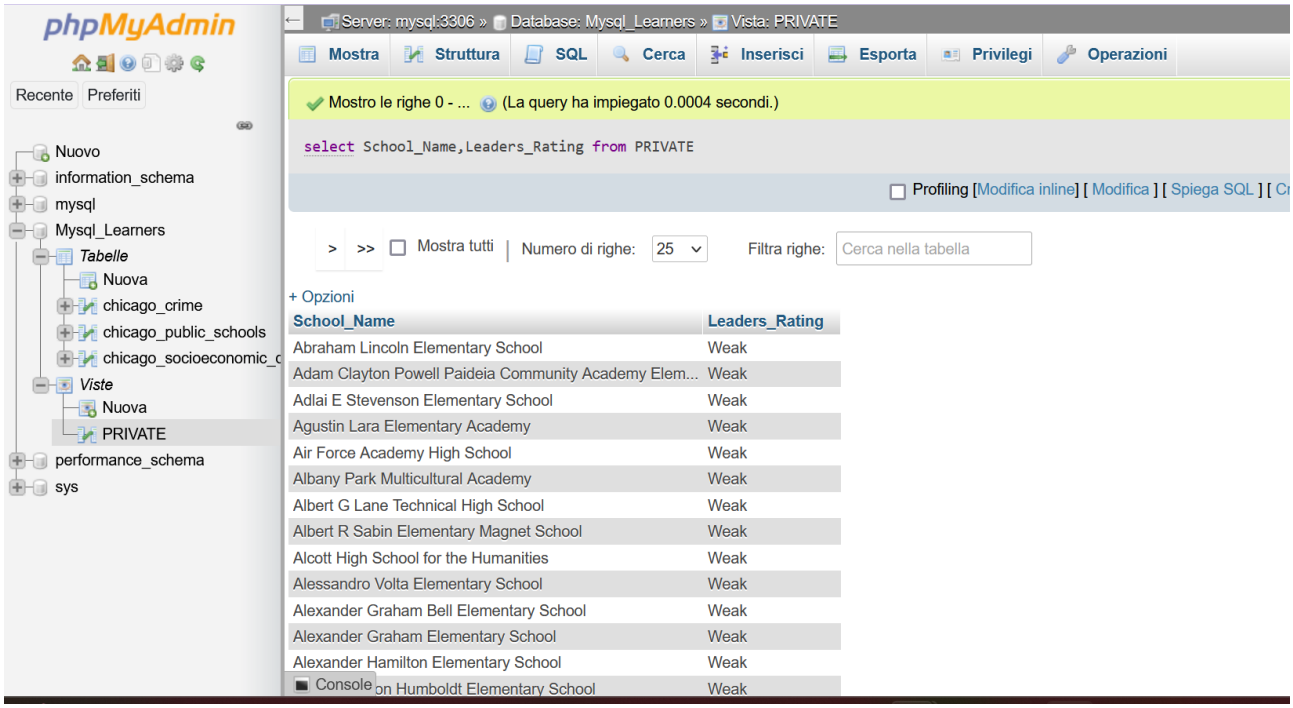
Exercise 2: Creating a View

Question 1

- Write and execute a SQL statement to create a view showing the columns listed in the following table, with new column names as shown in the second column.

Column name in CHICAGO_PUBLIC_SCHOOLS	Column name in view
NAME_OF_SCHOOL	School_Name
Safety_Icon	Safety_Rating
Family_Involvement_Icon	Family_Rating
Environment_Icon	Environment_Rating
Instruction_Icon	Instruction_Rating
Leaders_Icon	Leaders_Rating
Teachers_Icon	Teachers_Rating

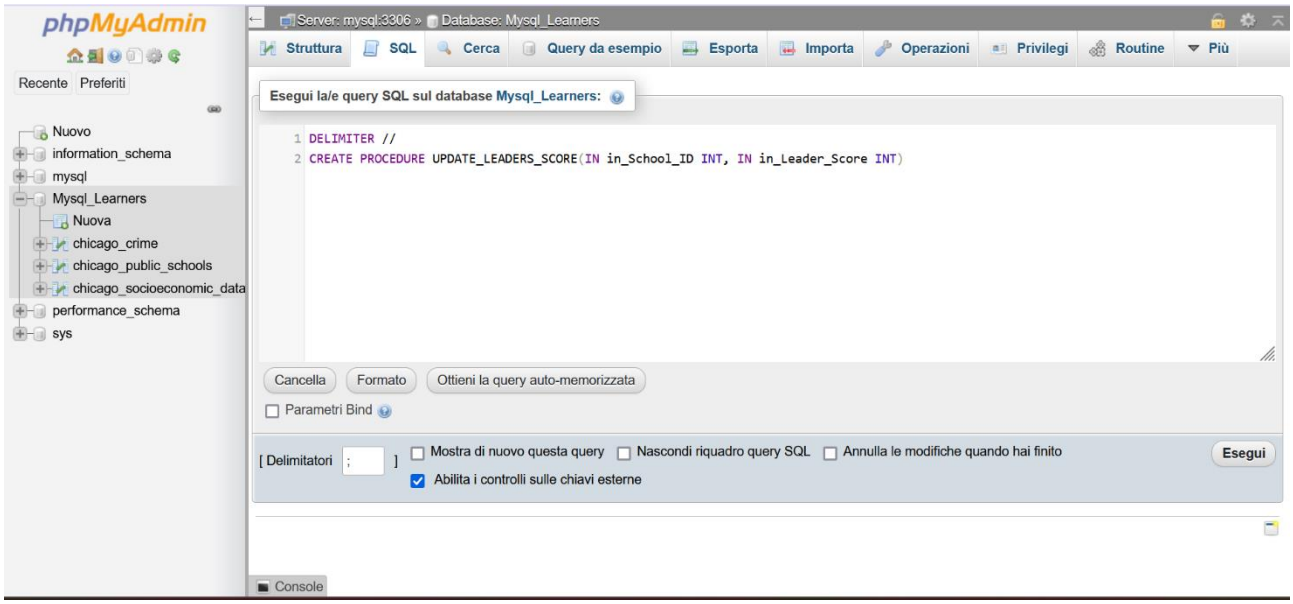
- Write and execute a SQL statement that returns just the school name and leaders rating from the view.



Exercise 3: Creating a Stored Procedure

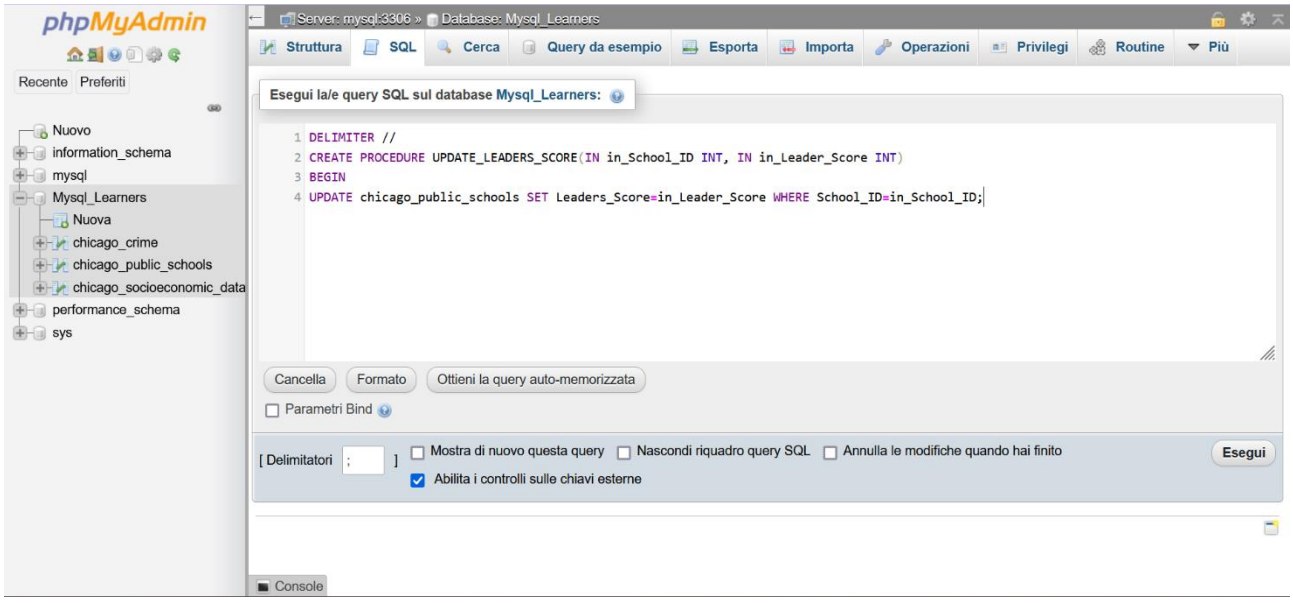
Question 1

- Write the structure of a query to create or replace a stored procedure called UPDATE_LEADERS_SCORE that takes a in_School_ID parameter as an integer and a in_Leader_Score parameter as an integer.



Question 2

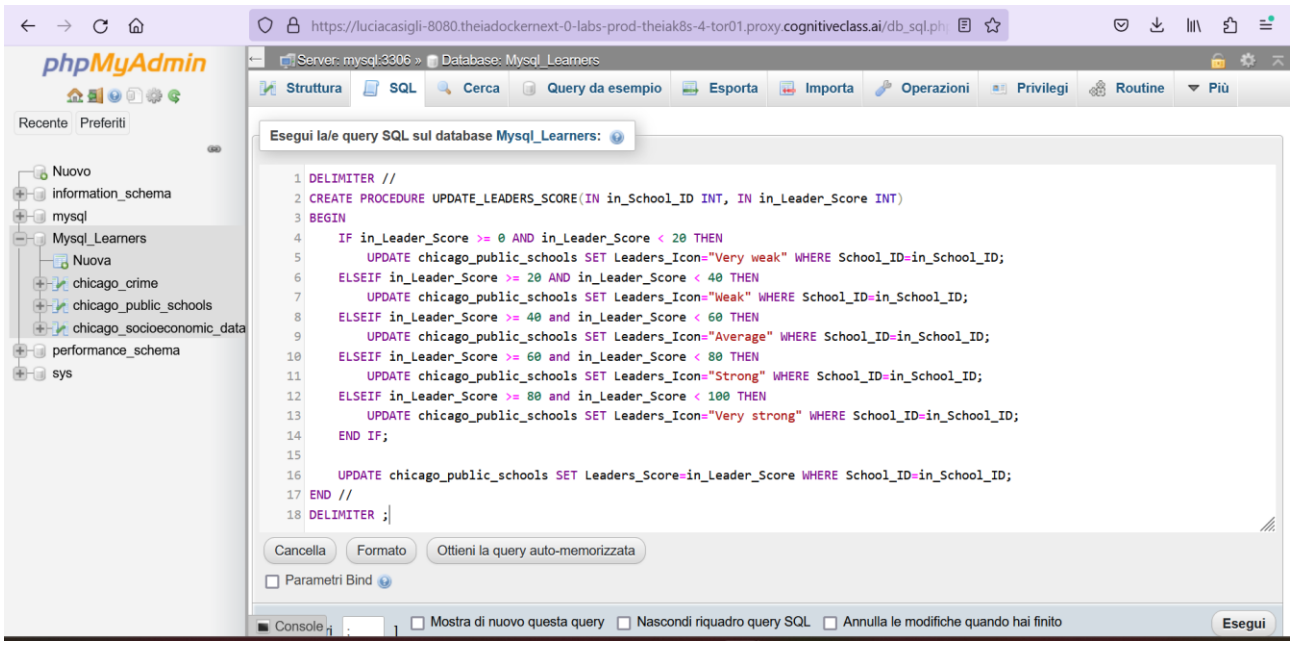
- Inside your stored procedure, write a SQL statement to update the Leaders_Score field in the CHICAGO_PUBLIC_SCHOOLS table for the school identified by in_School_ID to the value in the in_Leader_Score parameter.



Question 3

- Inside your stored procedure, write a SQL IF statement to update the Leaders_Icon field in the CHICAGO_PUBLIC_SCHOOLS table for the school identified by in_School_ID using the following information.

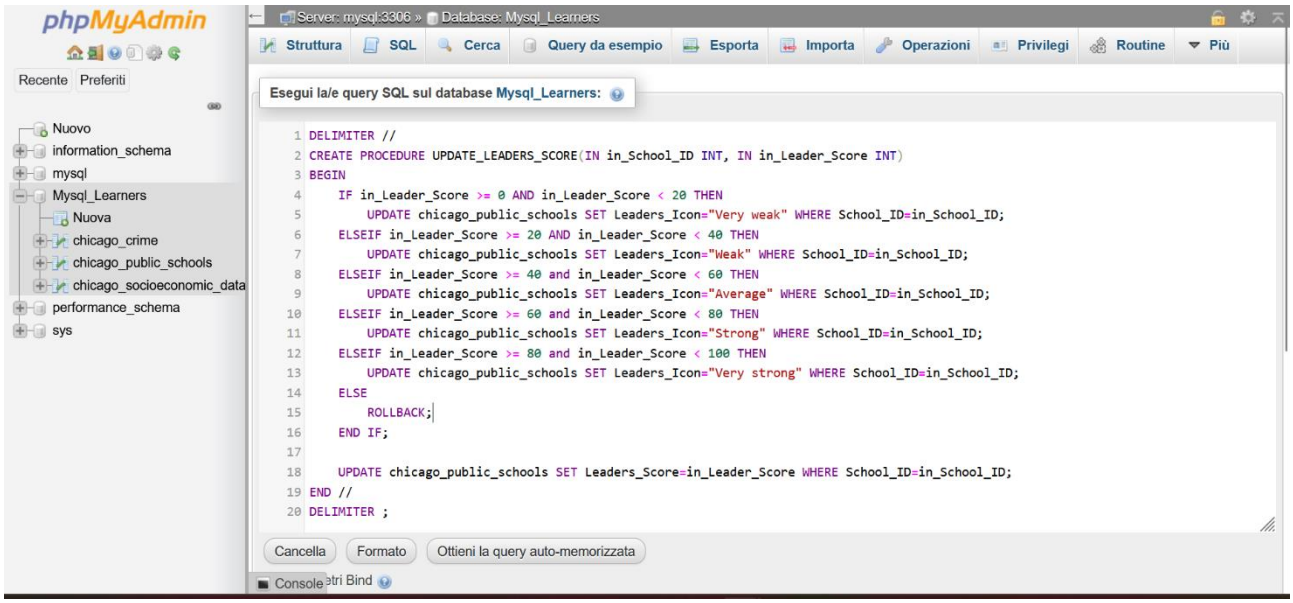
Score lower limit	Score upper limit	Icon
80	99	Very strong
60	79	Strong
40	59	Average
20	39	Weak
0	19	Very weak



Exercise 4: Using Transactions

Question 1

- Update your stored procedure definition. Add a generic ELSE clause to the IF statement that rolls back the current work if the score did not fit any of the preceding categories.



Question 2

- Update your stored procedure definition again. Add a statement to commit the current unit of work at the end of the procedure.