

You can verify that the table creation was successful by retrieving the list of all tables in your schema and checking whether the SCHOOLS table was created []: # type in your query to retrieve list of all tables in the database for your db2 schema (username) Double-click here for a hint Double-click here for the solution. Query the database system catalog to retrieve column metadata The SCHOOLS table contains a large number of columns. How many columns does this table have? []: # type in your query to retrieve the number of columns in the SCHOOLS table Double-click **here** for a hint Double-click **here** for the solution. Now retrieve the the list of columns in SCHOOLS table and their column type (datatype) and length. []: # type in your query to retrieve all column names in the SCHOOLS table along with their datatypes and length Double-click here for the solution. Questions 1. Is the column name for the "SCHOOL ID" attribute in upper or mixed case? 2. What is the name of "Community Area Name" column in your table? Does it have spaces? 3. Are there any columns in whose names the spaces and paranthesis (round brackets) have been replaced by the underscore character "_"? **Problems** Problem 1 How many Elementary Schools are in the dataset? Double-click here for a hint Double-click here for another hint Double-click here for the solution. Problem 2 What is the highest Safety Score? Double-click here for a hint Double-click here for the solution. Problem 3 Which schools have highest Safety Score? Double-click here for the solution. Problem 4 What are the top 10 schools with the highest "Average Student Attendance"? **Did you know?** IBM Watson Studio lets you build and deploy an AI solution, using the best of open source and IBM software and giving your team a single environment to work in. Learn more here. Double-click here for the solution Problem 5 Retrieve the list of 5 Schools with the lowest Average Student Attendance sorted in ascending order based on attendance Double-click here for the solution. Now remove the '%' sign from the above result set for Average Student Attendance column Double-click here for a hint Double-click here for the solution. Problem 7 Which Schools have Average Student Attendance lower than 70%? Double-click **here** for a hint

Double-click **here** for another hint Double-click **here** for the solution. Problem 8 Get the total College Enrollment for each Community Area Double-click **here** for a hint Double-click **here** for another hint Double-click **here** for the solution. Problem 9 Get the 5 Community Areas with the least total College Enrollment sorted in ascending order Double-click **here** for a hint Double-click **here** for the solution. Problem 10 Get the hardship index for the community area which has College Enrollment of 4638 $\,$ Double-click **here** for the solution. Problem 11 $\label{eq:Get the hardship index for the community area which has the highest value for College Enrollment$ Double-click **here** for the solution. Summary In this lab you learned how to work with a real word dataset using SQL and Python. You learned how to query columns with spaces or special characters in their names and with mixed case names. You also used built in database functions and practiced how to sort, limit, and order result sets, as well as used sub-queries and worked with multiple tables. Copyright © 2018 cognitiveclass.ai. This notebook and its source code are released under the terms of the MIT License.

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