



Assignment Preparation:
Working with real-world
data sets and built-in
SQL functions

Assignment

Ungraded External
Tool: Jupyter notebook
with problems for Peer
Reviewed Assignment
1h

Peer-reviewed
Assignment: Peer
Reviewed Assignment
Grading in progress

Review Your Peers: Peer
Reviewed Assignment

Course Feedback

Digital Badge

Peer-graded Assignment: Peer Reviewed Assignment

Review by Sep 5, 8:59 AM CEST

Reviews 1 left to complete

It looks like this is your first peer-graded assignment. Learn more X

Databases and SQL for Data Science



by Jayanth CVN

August 15, 2019

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PROMPT

Problem 1: Find the total number of crimes recorded in the CRIME table Take a screenshot showing the SQL query and its results. Upload the JPEG (.jpg) file below for your peers to review.



RUBRIC

Problem 1: Find the total number of crimes recorded in the CRIME table

TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

- 1 pt
SQL Query is correct - includes count() - and its result is correct - 533.
- 0 pts
Did not attempt the problem or response is incorrect.

PROMPT

Problem 2: Retrieve first 10 rows from the CRIME table

Take a screenshot showing the SQL query and its results. Upload the JPEG (.jpg) file below for your peers to review.



RUBRIC

Problem 2: Retrieve first 10 rows from the CRIME table

- 1 pt
SQL Query is correct - includes select * and LIMIT 10 (or FETCH FIRST 10 rows only)
- 0 pts
Did not attempt the problem or response submitted is incorrect.

PROMPT

Problem 3: How many crimes involve an arrest

Take a screenshot showing the SQL query and its results. Upload the JPEG (.jpg) file below for your peers to review.



RUBRIC

Problem 3: How many crimes involve an arrest

- 2 pts
The SQL query and the result is correct:

The query includes a COUNT() and the WHERE clause has utilizes ARREST column.

- 1 pt
The SQL query and the result are not fully correct
- 0 pts
Did not attempt the problem or did not upload any solution

PROMPT

Problem 4: Which unique types of crimes have been recorded at a GAS STATION?

Take a screenshot showing the SQL query and its results. Upload the JPEG (.jpg) file below for your peers to review.



RUBRIC

Problem 4: Which unique types of crimes have been recorded at a GAS STATION?

- 2 pts
The SQL query and the result is correct:

The query uses DISTINCT and result set includes only one row for each of Criminal Trespass, Narcotics, Robbery, Theft.

- 1 pt
The SQL query and the result are not fully correct
- 0 pts
Did not attempt the problem or did not upload any solution

PROMPT

Problem 5: In the CENSUS_DATA table list all community areas whose names start with the letter 'B'.

Take a screenshot showing the SQL query and its results. Upload the JPEG (.jpg) file below for your peers to review.

**RUBRIC**

Problem 5: In the CENSUS_DATA table list all community areas whose names start with the letter 'B'.

- 2 pts
The SQL query and the result is correct:

The SQL query includes LIKE operator and wildcard value (%)

The result set has names of 5 COMMUNITY AREA NAMES starting with B.

- 1 pt
The SQL query and the result are not fully correct
- 0 pts
Did not attempt the problem or did not upload any solution

PROMPT

Problem 6: List the schools in Community Areas 10 to 15 that are healthy school certified?

Take a screenshot showing the SQL query and its results. Upload the JPEG (.jpg) file below for your peers to review.

**RUBRIC**

Problem 6: List the schools in Community Areas 10 to 15 that are healthy school certified?

- 2 pts
The SQL query and the result is correct:

The where clause includes both columns and a BETWEEN operator

The result set lists: Rufus M Hitch Elementary School

- 1 pt
The SQL query and the result are not fully correct
- 0 pts
Did not attempt the problem or did not upload any solution

PROMPT

Problem 7: What is the average school Safety Score?

Take a screenshot showing the SQL query and its results. Upload the JPEG (.jpg) file below for your peers to review.

**RUBRIC**

Problem 7: What is the average school Safety Score?

- 2 pts
The SQL query and the result is correct:

The query includes the AVG() function

The result set indicates the value 49.50...

- 1 pt
The SQL query and the result are not fully correct
- 0 pts
Did not attempt the problem or did not upload any solution

PROMPT

Problem 8: List the top 5 Community Areas by average College Enrollments [number of students]

Take a screenshot showing the SQL query and its results. Upload the JPEG (.jpg) file below for your peers to review.

**RUBRIC**

Problem 8: List the top 5 Community Areas by average College Enrollments [number of students]

- 4 pts
The SQL query and the result is correct:

The query includes the AVG() function, GROUP BY, and ORDER BY, DESC, and LIMIT (or FETCH FIRST 5 ROWS)

The result set includes the 5 Community Areas and their average College Enrollment values:

ARCHER HEIGHTS, MONTCLARE, WEST ELDON, BRIGHTON PARK, BELMONT CRAGIN

- 3 pts
The SQL query and the result are not fully correct but the query includes 4 out of the following 5:
AVG() function, GROUP BY, and ORDER BY, DESC, and LIMIT
- 2 pts
The SQL query and the result are not fully correct but the query includes 2 or 3 out of the following 5:
AVG() function, GROUP BY, and ORDER BY, DESC, and LIMIT
- 1 pt
The SQL query and the result are not fully correct but the query includes 1 out of the following 5:
AVG() function, GROUP BY, and ORDER BY, DESC, and LIMIT

		<p><input type="checkbox"/> 0 pts Did not attempt the problem or did not upload any solution</p>
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PROMPT	RUBRIC
<p>Problem 9: Use a sub-query to determine which Community Area has the least value for Safety Score?</p> <p>Take a screenshot showing the SQL query and its results. Upload the JPEG (.jpg) file below for your peers to review.</p> 	<p>Problem 9: Use a sub-query to determine which Community Area has the least value for Safety Score?</p> <p><input checked="" type="radio"/> 4 pts The SQL query and the result is correct:</p> <p>The SQL includes a main query containing the Safety Score column in the where clause, a sub-query in the where clause, and MIN() function in the sub-query.</p> <p>The result set indicates the Community Area Name "Washington Park" (or Number: 40)</p> <p><input type="radio"/> 3 pts The result is not fully correct but SQL query and the but the query includes all of the following 3:</p> <ul style="list-style-type: none"> (i) The SQL includes a main query containing the Safety Score column in the where clause, (ii) a sub-query in the where clause, and (iii) MIN() function in the sub-query. <p><input type="radio"/> 2 pts The SQL query and the result are not fully correct but the query includes 2 out of the following 3:</p> <ul style="list-style-type: none"> (i) The SQL includes a main query containing the Safety Score column in the where clause, (ii) a sub-query, and (iii) MIN() function in the sub-query. <p><input type="radio"/> 1 pt The SQL query and the result are not fully correct but the query includes 1 out of the following 3:</p> <ul style="list-style-type: none"> (i) The SQL includes a main query containing the Safety Score column in the where clause, (ii) a sub-query, and (iii) MIN() function in the sub-query. <p><input type="radio"/> 0 pts Did not attempt the problem or did not upload any solution</p>

PROMPT	RUBRIC
<p>Problem 10: Find the Per Capita Income of the Community Area which has a school Safety Score of 1.</p> <p>Take a screenshot showing the SQL query and its results. Upload the JPEG (.jpg) file below for your peers to review.</p> 	<p>Problem 10: Find the Per Capita Income of the Community Area which has a school Safety Score of 1.</p> <p><input checked="" type="radio"/> 4 pts The SQL query and the result is correct:</p> <p>The result set has only 1 row with Per Capita Income value of 13785.</p> <p>The solution:</p> <p>(A) for SQL involving sub-query: The query has all of:</p> <ul style="list-style-type: none"> (i). The SQL includes both the CENSUS DATA, and CHICAGO_PUBLIC_SCHOOL tables (ii) includes a main query on the CENSUS_DATA table containing the Community Area column in the where clause, (iii) a sub-query against the CHICAGO_PUBLIC_SCHOOL table in the where clause, and (iv) Safety_Score value of 1 in the where clause of the sub-query. <p>or</p> <p>(B) for SQL involving implicit join: The query has all of :</p> <ul style="list-style-type: none"> (i) The SQL references both the CENSUS DATA, and CHICAGO_PUBLIC_SCHOOL tables in the FROM clause, (ii) equates Community Area Number (or Name) from one table with the same from other table in the where clause, (iii) Safety_Score value of 1 in the where clause <p><input type="radio"/> 3 pts The result is not fully correct but SQL query and the but the query includes:</p> <p>(A) for SQL involving sub-query: The query has all of:</p> <ul style="list-style-type: none"> (i). The SQL includes both the CENSUS DATA, and CHICAGO_PUBLIC_SCHOOL tables (ii) includes a main query on the CENSUS_DATA table containing the Community Area column in the where clause, (iii) a sub-query against the CHICAGO_PUBLIC_SCHOOL table in the where clause, and (iv) Safety_Score value of 1 in the where clause of the sub-query. <p>or</p> <p>(B) for SQL involving implicit join: The query has all of :</p>

(i) The SQL references both the CENSUS DATA, and CHICAGO_PUBLIC_SCHOOL tables in the FROM clause, (ii) equates Community Area Number (or Name) from one table with the same from other table in the where clause, (iii) Safety_Score value of 1 in the where clause

2 pts

The SQL query and the result are not fully correct but the query includes :

(A) for SQL involving sub-query: The query has two of:

(i). The SQL includes both the CENSUS DATA, and CHICAGO_PUBLIC_SCHOOL tables (ii) includes a main query on the CENSUS_DATA table containing the Community Area column in the where clause, (iii) a sub-query against the CHICAGO_PUBLIC_SCHOOL table in the where clause, and (iv) Safety_Score value of 1 in the where clause of the sub-query.

or

(B) for SQL involving implicit join: The query has two of:

(i) The SQL references both the CENSUS DATA, and CHICAGO_PUBLIC_SCHOOL tables in the FROM clause, (ii) equates Community Area Number (or Name) from one table with the same from other table in the where clause, (iii) Safety_Score value of 1 in the where clause

1 pt

The SQL query and the result are not fully correct but the query includes:

(A) for SQL involving sub-query: The query has 1 of:

(i). The SQL includes both the CENSUS DATA, and CHICAGO_PUBLIC_SCHOOL tables (ii) includes a main query on the CENSUS_DATA table containing the Community Area column in the where clause, (iii) a sub-query against the CHICAGO_PUBLIC_SCHOOL table in the where clause, and (iv) Safety_Score value of 1 in the where clause of the sub-query.

or

(B) for SQL involving implicit join: The query has 1 of :

(i) The SQL references both the CENSUS DATA, and CHICAGO_PUBLIC_SCHOOL tables in the FROM clause, (ii) equates Community Area Number (or Name) from one table with the same from other table in the where clause, (iii) Safety_Score value of 1 in the where clause

0 pts

Did not attempt the problem or did not upload any solution

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