

Please ensure you have successfully completed the hands-on portion of the assignment prior to answering the questions below.

Have the Queries and their results handy while answering the questions.

**NOTE:** You only get 1 attempt to correctly answer the final assignment questions.

1. Which of the following is the correct SQL query for:

1 / 1 point

PROBLEM 1: Find the total number of crimes recorded in the Chicago crime table

- ☐ select count(\*) from database
- ☒ select count(\*) from chicago\_crime\_data
- ☐ select count(\*) from chicago\_public\_schools
- ☐ select count(chicago\_crime\_data) from database

✓ Correct

2. Which of the following is the correct SQL query for:

1 / 1 point

PROBLEM 2: Retrieve the first 10 rows from the CRIME table

- ☐ select the first 10 rows from chicago\_crime\_data
- ☐ select count(10) chicago\_crime\_data
- ☒ select \* from chicago\_crime\_data limit 10
- ☐ select limit(10) from chicago\_crime\_data

✓ Correct

3. Which of the following is the correct result value for the SQL query for:

1 / 1 point

PROBLEM 3: How many crimes involve an arrest

- ☐ 0
- ☒ 163
- ☐ 165
- ☐ 16

✓ Correct

4. Given the subset of the Chicago crime dataset provided in the course, what are the correct values in the result set for:

1 / 1 point

PROBLEM 4: Which unique types of crimes have been recorded at GAS STATION locations?

- ☒ CRIMINAL TRESPASS, NARCOTICS, ROBBERY, THEFT
- ☐ CRIMINAL TRESPASS, MOTOR VEHICLE THEFT, ROBBERY, THEFT
- ☐ BURGLARY, CRIMINAL TRESPASS, ROBBERY, THEFT
- ☐ ROBBERY, WEAPONS VIOLATION, THEFT

✓ Correct

5. Which of the following is the correct SQL query for:

1 / 1 point

PROBLEM 5: In the CENSUS\_DATA table list all Community Areas whose names start with the letter 'B'.

- ☐ select community\_area\_name from CENSUS\_DATA where community\_area\_name like 'B\*'
- ☐ select community\_area\_name from CENSUS\_DATA where community\_area like 'B%'
- ☒ select community\_area\_name from CENSUS\_DATA where community\_area\_name like 'B%'
- ☐ select community\_area from CENSUS\_DATA where community\_area like 'B\*'

✓ Correct

6. Which of the following is (are) the correct SQL query for:

0 / 1 point

PROBLEM 6: Which schools in Community Areas 10 to 15 are healthy school certified?

- ☒ select name\_of\_school from CHICAGO\_PUBLIC\_SCHOOLS where HEALTHY\_SCHOOL\_CERTIFIED = "Yes" and Community\_Area\_Number BETWEEN 10 AND 15
- ☐ select name\_of\_school from CHICAGO\_PUBLIC\_SCHOOLS where HEALTHY\_SCHOOL\_CERTIFIED = 'Yes' and Community\_Area\_Number > 10 AND < 15
- ☐ select name\_of\_school from CHICAGO\_PUBLIC\_SCHOOLS where Healthy\_School\_Certified = 'Yes' and Community\_Area\_Number BETWEEN 10 AND 15
- ☐ select name\_of\_school from CHICAGO\_PUBLIC\_SCHOOLS where "Healthy\_School\_Certified" = 'Yes' and Community\_Area\_Number BETWEEN 10 AND 15

✗ Incorrect

7. Which of the following is the correct SQL query [and result value] for:

1 / 1 point

PROBLEM 7: What is the average school Safety Score?

- ☐ select AVERAGE(safety\_score) from chicago\_public\_schools [Result: 50.504873]
- ☐ select AVG("Safety\_Score") from chicago\_public\_schools [Result: 49.504873]
- ☐ select avg(Safety\_Score) from chicago\_public\_schools [Result: 50.504873]
- ☒ select avg(SAFETY\_SCORE) from chicago\_public\_schools [Result: 49.504873]

✓ Correct

8. Which of the following is the correct SQL query for:

0 / 1 point

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

- ☐ select Community\_Area\_Name, AVG(College\_Enrollment) as AVG\_ENROLLMENT from CHICAGO\_PUBLIC\_SCHOOLS group by Community\_Area\_Name order by AVG\_ENROLLMENT desc limit 5
- ☐ select COMMUNITY\_AREA\_NAME, AVG(COLLEGE\_ENROLLMENT) as AVG\_ENROLLMENT from CHICAGO\_PUBLIC\_SCHOOLS order by COMMUNITY\_AREA\_NAME group by AVG\_ENROLLMENT limit 5
- ☐ select "Community\_Area\_Name", AVG(COLLEGE\_ENROLLMENT) as AVG\_ENROLLMENT from CHICAGO\_PUBLIC\_SCHOOLS order by "Community\_Area\_Name" desc limit 5 group by AVG\_ENROLLMENT
- ☒ select Community\_Area\_Name, AVG(COLLEGE\_ENROLLMENT) as AVG\_ENROLLMENT from CHICAGO\_PUBLIC\_SCHOOLS order by COMMUNITY\_AREA\_NAME group by AVG\_ENROLLMENT desc limit 5

✗ Incorrect

9. Which of the following is the correct SQL query for:

1 / 1 point

PROBLEM 9: Use a sub-query to determine which Community Area has the least value for school Safety Score?

- ☒ select COMMUNITY\_AREA\_NAME, SAFETY\_SCORE from chicago\_public\_schools where SAFETY\_SCORE = ( select MIN(SAFETY\_SCORE) from chicago\_public\_schools )
- ☐ select COMMUNITY\_AREA, "Safety\_Score" from chicago\_public\_schools where "Safety\_Score" = ( select MIN("Safety\_Score") from chicago\_public\_schools )
- ☐ select COMMUNITY\_AREA\_NAME, MIN(SAFETY\_SCORE) from chicago\_public\_schools from chicago\_public\_schools
- ☐ select COMMUNITY\_AREA\_NAME, SAFETY\_SCORE from chicago\_public\_schools where SAFETY\_SCORE = MIN(SAFETY\_SCORE) from chicago\_public\_schools )

✓ Correct

10. Which of the following statement(s) is/are the correct SQL query for:

1 / 1 point

PROBLEM 10: [Without using an explicit JOIN operator] Find the Per Capita Income of the Community Area which has a school Safety Score of 1.

- ☐ A. select community\_area\_number, community\_area\_name, per\_capita\_income from census\_data where community\_area\_number = ( select community\_area\_number from chicago\_public\_schools where safety\_score = 1 )
- ☐ B. select CD.community\_area\_number, CD.community\_area\_name, CD.per\_capita\_income from census\_data CD, chicago\_public\_schools CPS where CD.community\_area\_number=CPS.community\_area\_number and CPS.safety\_score = 1
- ☒ Both Options A and B are correct
- ☐ Neither option A or B is correct

✓ Correct