Find the total number of crimes recorded in the CRIME table

```
# Rows in Crime table
%sql select count(PRIMARY TYPE) from CHICAGO CRIME DATA;
```

Done.

* ibm_db_sa://bqr71850:***@dashdb-txn-sbox-yp-dal09-04.services.dal.bluemix.net:50000/BLUDB

Problem 2 Retrieve first 10 rows from the CRIME table [13]: %sql select id, DATE, primary_type, community_area_number, LOCATION_DESCRIPTION, arrest \ from CHICAGO_CRIME_DATA LIMIT 10; * ibm_db_sa://bqr71850:***@dashdb-txn-sbox-yp-dal09-04.services.dal.bluemix.net:50000/BLUDB Done. [13]: id DATE primary_type community_area_number location_description_arrest

58

23

46

66

24

14

38

72

21

SMALL RETAIL STORE FALSE

RESIDENCE

STREET

STREET

38 NURSING HOME/RETIREMENT HOME FALSE

PARKING LOT/GARAGE(NON.RESID.)

GROCERY FOOD STORE

SMALL RETAIL STORE

OTHER FALSE

ALLEY FALSE

FALSE

FALSE

TRUE

FALSE

FALSE

THEFT

[13]:

3512276 2004-08-28 17:50:56

3406613 2004-06-26 12:40:00

8002131 2011-04-04 05:45:00

10402076 2016-02-02 19:30:00

7732712 2010-09-29 07:59:00

10769475 2016-11-30 01:15:00

4494340 2005-12-16 16:45:00

3778925 2005-01-28 17:00:00

3324217 2004-05-13 14:15:00

2010-12-30 16:30:00

7903289

How many crimes involve an arrest?

total number of arrests

Done.

163

* ibm db sa://bqr71850:***@dashdb-txn-sbox-yp-dal09-04.services.dal.bluemix.net:50000/BLUDB

[11]: %sql select count(arrest) as Total_Number_of_Arrests from CHICAGO_CRIME_DATA where arrest = TRUE;

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

Hint: Which column lists types of crimes e.g. THEFT?

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.

```
%sql select DISTINCT(primary_type) from CHICAGO_CRIME_DATA\
where LOCATION_DESCRIPTION = 'GAS STATION';

* ibm_db_sa://bqr71850:***@dashdb-txn-sbox-yp-dal09-04.services.dal.bluemix.net:50000/BLUDB
Done.

[35]: primary_type

CRIMINAL TRESPASS

NARCOTICS

ROBBERY

THEFT
```

Done.

community area number community area name

19

47

58

60

72

[43]:

In the CENUS DATA table list all Community Areas whose names start with the letter 'B'.

:	%sql select COMMUNITY_AREA_NUM	BER, COMMUNITY_AREA_NAME f	From CHICAGO_SOCIOECONOMIC_INDICATORS \
	COMMUNITY ADEA NAME Tile	100/1	

Belmont Cragin

Brighton Park

Bridgeport

Beverly

Burnside

where COMMUNITY_AREA_NAME like 'B%

* ibm db_sa://bqr71850:***@dashdb-txn-sbox-yp-dal09-04.services.dal.bluemix.net:50000/BLUDB

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

[53]:

where COMMUNITY AREA NUMBER between 10 and 15 and UCASE(HEALTHY SCHOOL CERTIFIED) = 'YES';

* ibm db sa://bqr71850:***@dashdb-txn-sbox-yp-dal09-04.services.dal.bluemix.net:50000/BLUDB Done.

Yes

name of school community area number healthy school certified

%sql select NAME_OF_SCHOOL, COMMUNITY_AREA_NUMBER, HEALTHY_SCHOOL_CERTIFIED from SCHOOLS \

Rufus M Hitch Elementary School

What is the average school Safety Score?

Done.

average school safety school

49.504873

* ibm db sa://bqr71850:***@dashdb-txn-sbox-yp-dal09-04.services.dal.bluemix.net:50000/BLUDB

[54]: %sql select AVG(SAFETY_SCORE) as Average_School_Safety_School from SCHOOLS;

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

 %sql select COMMUNITY_AREA_NAME, ROUND(AVG(COLLEGE_ENROLLMENT)) as avg_college_enrollment from SCHOOLS \ group by COMMUNITY_AREA_NAME\ order by avg_college_enrollment desc LIMIT 5;
* ibm_db_sa://bqr71850:***@dashdb-txn-sbox-yp-dal09-04.services.dal.bluemix.net:50000/BLUDB Done.

[61]: community_area_name avg_college_enrollment ARCHER HEIGHTS 2412.000000 MONTCLARE 1317.000000 WEST ELSDON 1233.000000 **BRIGHTON PARK** 1206.000000 BELMONT CRAGIN 1199.000000

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

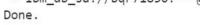
```
where SAFETY_SCORE = (select MIN(SAFETY_SCORE) from SCHOOLS)
* ibm db sa://bgr71850:***@dashdb-txn-sbox-yp-dal09-04.services.dal.bluemix.net:50000/BLUDB
```

[63]: %sql select COMMUNITY_AREA_NAME, SAFETY_SCORE from SCHOOLS











WASHINGTON PARK

[68]:

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

```
from SCHOOLS as S. CHICAGO SOCIOECONOMIC INDICATORS as CSI\
where S.COMMUNITY AREA NUMBER = CSI.COMMUNITY AREA NUMBER and S.SAFETY SCORE = 1
* ibm db sa://bqr71850:***@dashdb-txn-sbox-yp-dal09-04.services.dal.bluemix.net:50000/BLUDB
```

%sql select S.COMMUNITY AREA NAME, CSI.PER CAPITA INCOME, S.SAFETY SCORE '

Done.

community area name per capita income safety score

WASHINGTON PARK 13785