

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

RUN SQL

The screenshot shows a SQL IDE interface. On the left, a query editor contains the SQL statement: `SELECT COUNT(*) FROM CHICAGO_CRIME_DATA`. On the right, the results pane shows the execution status: "Result - Jun 9, 2021 4:5..." and "Run time: 0.013 s". Below this, "Result set 1" is displayed as a table with one row containing the value 533.

533

Problem 2: List community areas with per capita income less than 11000.

RUN SQL

The screenshot shows a SQL IDE interface. On the left, a query editor contains the SQL statement: `SELECT COMMUNITY_AREA_NAME FROM CENSUS_DATA WHERE PER_CAPITA_INCOME < 11000;`. On the right, the results pane shows the execution status: "Result - Jun 9, 2021 5:1..." and "Run time: 0.017 s". Below this, "Result set 1" is displayed as a table with four rows of community area names.

COMMUNITY_AREA_NAME
West Garfield Park
South Lawndale
Fuller Park
Riverdale

Problem 3: List all case numbers for crimes involving minors?(children are not considered minors for the purposes of crime analysis)

The screenshot shows a SQL IDE interface. On the left, a query editor contains the SQL statement: `select CASE_NUMBER FROM CHICAGO_CRIME WHERE DESCRIPTION LIKE '%MINOR%'`. On the right, the results pane shows the execution status: "Result - Jun 9, 2021 5:1..." and "Run time: 0.011 s". Below this, "Result set 1" is displayed as a table with two rows of case numbers.

CASE_NUMBER
HL266884
HK238408

Problem 4: List all kidnapping crimes involving a child?

The screenshot shows a SQL IDE interface. On the left, a query editor contains the SQL statement: `SELECT DISTINCT(CASE_NUMBER) FROM CHICAGO_CRIME_DATA WHERE PRIMARY_TYPE LIKE 'KIDNAPPING';`. On the right, the results pane shows the execution status: "Result - Jun 9, 2021 5:1..." and "Run time: 0.011 s". Below this, "Result set 1" is displayed as a table with one row containing the case number HN144152.

CASE_NUMBER
HN144152

Problem 5: What kind of crimes were recorded at schools?

```
select DISTINCT(PRIMARY_TYPE) from CHICAGO_CRIME_DATA
WHERE LOCATION_DESCRIPTION LIKE 'SCHOOL%';
```

✓ select DISTINCT(PRIMARY_TYPE) from CHICAGO... Run time: 0.017 s

Result set 1

PRIMARY_TYPE
ASSAULT
BATTERY
CRIMINAL DAMAGE
CRIMINAL TRESPASS
NARCOTICS

5 / 6 rows truncated to display. [Show More](#)

Problem 6: List the average safety score for all types of schools.

```
%%sql
select "Elementary, Middle, or High School",AVG(SAFETY_SCORE) FROM CHICAGO_SCHOOL_DATA
GROUP BY "Elementary, Middle, or High School"
```

* ibm_db_sa://xvn04856:***@dashdb-txn-sbox-yp-lon02-13.services.eu-gb.ibmcloud.com:50000/BLUDB Done.

Elementary, Middle, or High School	2
ES	49.520383
HS	49.623529
MS	48.000000

Problem 7: List 5 community areas with the highest % of households below the poverty line.

```
%%sql
select COMMUNITY_AREA_NAME from CHICAGO_SOCIOECONOMIC_DATA
order by PERCENT_HOUSEHOLDS_BELOW_POVERTY DESC LIMIT 5
```

* ibm_db_sa://xvn04856:***@dashdb-txn-sbox-yp-lon02-13.services.eu-gb.ibmcloud.com:50000/BLUDB Done.

community_area_name
Riverdale
Fuller Park
Englewood
North Lawndale
East Garfield Park

Problem 8: Which community area(number) is most crime-prone?

```
SELECT COMMUNITY_AREA_NUMBER, COUNT(COMMUNITY_AREA_NUMBER) AS COUNT
FROM CHICAGO_CRIME_DATA
GROUP BY COMMUNITY_AREA_NUMBER
ORDER BY COUNT DESC LIMIT 1;
```

✓ SELECT COMMUNITY_AREA_NUMBER, COUNT(...) Run time: 0.013 s

Result set 1

COMMUNITY_AREA_NUMBER	COUNT
25	43

> ✓ SELECT COMMUNITY_AREA_NAME FROM CEN... Run time: 0.022 s

Problem 9: Use a sub-query to find the name of the community area with highest hardship index.

```
SELECT COMMUNITY_AREA_NAME FROM CENSUS_DATA
WHERE HARDSHIP_INDEX = (SELECT MAX(hardship_index) FROM CENSUS_DATA);
```

✓ SELECT COMMUNITY_AREA_NAME FROM CEN... Run time: 0.013 s

Result set 1

COMMUNITY_AREA_NAME
Riverdale

Problem 10: Use a sub-query to determine the Community Area Name with most number of crimes?

```
SELECT COMMUNITY_AREA_NAME FROM CENSUS_DATA
WHERE COMMUNITY_AREA_NUMBER = (SELECT COMMUNITY_AREA_NUMBER FROM
CHICAGO_CRIME_DATA GROUP BY COMMUNITY_AREA_NUMBER ORDER BY COUNT
DESC LIMIT 1);
```

✓ SELECT COMMUNITY_AREA_NAME FROM CEN... Run time: 0.022 s

Result set 1

COMMUNITY_AREA_NAME
Austin