#### Problem 1

Find the total number of crimes recorded in the CRIME table.

[7]: %sql select distinct(count(\*)) from CHICAGO\_CRIME\_DATA

\* ibm\_db\_sa://wyb03994:\*\*\*@b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud:31249/BLUDB

#### Problem 2

List community areas with per capita income less than 11000.

[8]: %sql select COMMUNITY\_AREA\_NAME,PER\_CAPITA\_INCOME from CENSUS\_DATA where PER\_CAPITA\_INCOME < 11000

\* ibm\_db\_sa://wyb03994:\*\*\*@b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud:31249/BLUDB

[8]: community\_area\_name per\_capita\_income

West Garfield Park	10934
South Lawndale	10402
Fuller Park	10432
Riverdale	8201

# Problem 3

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

[19]: %sql select CASE\_NUMBER from CHICAGO\_CRIME\_DATA where PRIMARY\_TYPE = 'OFFENSE INVOLVING CHILDREN';

\* ibm\_db\_sa://wyb03994:\*\*\*@b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud:31249/BLUDB Done.

t[61]: case\_number

HN567387

HR391350

HM768251

HT394616

#### Problem 4

List all kidnapping crimes involving a child?

[15]: %sql select \* from CHICAGO\_CRIME\_DATA where PRIMARY\_TYPE = 'KIDNAPPING' and description like '%CHILD%';

\* ibm\_db\_sa://wyb03994:\*\*\*@b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud:31249/BLUDB

]:	id	case_number	DATE	block	iucr	primary_type	description	location_description	arrest	domestic	beat	district	ward	community_area
	5276766	HN144152	2007-01-26	050XX W VAN BUREN ST	1792	KIDNAPPING	CHILD ABDUCTION/STRANGER	STREET	FALSE	FALSE	1533	15	29	

# Problem 5 1

What kinds of crimes were recorded at schools?

[17]: %sql select distinct(PRIMARY\_TYPE) from CHICAGO\_CRIME\_DATA where LOCATION\_DESCRIPTION like '%SCHOOL%';

\* ibm\_db\_sa://wyb03994:\*\*\*@b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud:31249/BLUDB Done.

ASSAULT
BATTERY
CRIMINAL DAMAGE
CRIMINAL TRESPA
NARCOTICS

#### Problem 6

PUBLIC PEACE VI

List the average safety score for all types of schools.

[28]: %sql select "Elementary, Middle, or High School", avg(safety\_score) as average\_safety\_score from schools group by "Elementary, Middle, or Company of the school of t

\* ibm\_db\_sa://wyb03994:\*\*\*@b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud:31249/BLUDB Done.

### [28]: Elementary, Middle, or High School average\_safety\_score

ES	49
HS	49
MS	48

#### Problem 7

List 5 community areas with highest % of households below poverty line

[30]: %sql select community\_area\_name, percent\_households\_below\_poverty from CENSUS\_DATA\
order by percent\_households\_below\_poverty desc nulls last limit 5;

\* ibm\_db\_sa://wyb03994:\*\*\*@b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud:31249/BLUDB Done.

#### $[\, 30\, ]: \quad community\_area\_name \quad percent\_households\_below\_poverty$

Riverdale	56.5
Fuller Park	51.2
Englewood	46.6
North Lawndale	43.1
East Garfield Park	42.4

### Problem 8

Which community area is most crime prone?

[32]: %sql select community\_area\_number, count(\*) as Number\_of\_Crime from chicago\_crime\_data group by community\_area\_number\
order by number\_of\_crime desc limit 1;

\* ibm\_db\_sa://wyb03994:\*\*\*@b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud:31249/BLUDB

[32]: community\_area\_number number\_of\_crime

# Problem 9

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

```
%sql select community_area_name from census_data\
where hardship_index = (select max(hardship_index) from census_data)

* ibm_db_sa://wyb03994:***@b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud:31249/BLUDB
Done.
```

[34]: 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 CCD.COMMUNITY_AREA_NUMBER
    FROM CHICAGO_CRIME_DATA AS CCD
    GROUP BY CCD.COMMUNITY_AREA_NUMBER
    ORDER BY COUNT(CCD.COMMUNITY_AREA_NUMBER) DESC
    LIMIT 1;
LIMIT 1;
```

 $* ibm\_db\_sa://wyb03994:***@b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud:31249/BLUDB Done.$ 

[36]: community\_area\_name

Austin