

Lab 6 task

1. list the total number of crimes recorded in the CRIME table.

The screenshot shows a database interface with a user 'chicago_crimes/root@hi'. The query editor contains the following SQL query:

```
1 SELECT COUNT(*) AS total_crimes FROM chicago_crime_data;
2
```

The 'Data Output' tab is active, showing the results of the query. The output is a single row with the column 'total_crimes' (type: bigint) and the value 533.

	total_crimes bigint
1	533

2. List the name of the community areas with per capita income less than 11000.

The screenshot shows the same database interface. The query editor contains the following SQL query:

```
1 SELECT "COMMUNITY_AREA_NAME"
2 FROM chicago_census_data
3 WHERE ("PER_CAPITA_INCOME" < 11000);
4
```

The 'Data Output' tab is active, showing the results of the query. The output is a table with the column 'COMMUNITY_AREA_NAME' (type: text) and four rows of community area names.

	COMMUNITY_AREA_NAME text
1	West Garfield Park
2	South Lawndale
3	Fuller Park
4	Riverdale

3. list the name of the community area with the highest unemployment rate

Query Query History

```
1 SELECT "COMMUNITY_AREA_NAME"
2 FROM chicago_census_data
3 ORDER by "PERCENT_AGED_16__UNEMPLOYED" DESC
4 LIMIT 1;
5
```

Data Output Messages Notifications

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	COMMUNITY_AREA_NAME text
1	West Englewood

4. list all case numbers involving minors (children are not considered minors for the purpose of crime analysis).

Query Query History

```
1 SELECT "CASE_NUMBER", "PRIMARY_TYPE" , "DESCRIPTION"
2 FROM chicago_crime_data
3 WHERE "PRIMARY_TYPE" LIKE '%MINOR%' OR "DESCRIPTION" LIKE '%MINOR%';
4
```

Data Output Messages Notifications

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	CASE_NUMBER text	PRIMARY_TYPE text	DESCRIPTION text
1	HL266884	LIQUOR LAW VIOLATION	SELL/GIVE/DEL LIQUOR TO MINOR
2	HK238408	LIQUOR LAW VIOLATION	ILLEGAL CONSUMPTION BY MIN...

5. list all kidnapping crimes involving a child

Query Query History

```
1 SELECT *
2 FROM chicago_crime_data
3 WHERE "PRIMARY_TYPE" = 'KIDNAPPING' AND "DESCRIPTION" LIKE '%CHILD%';
```

Data Output Messages Notifications

Showing rows: 1 to 1 Page No: 1 of 1

	ID bigint	CASE_NUMBER text	DATE text	BLOCK text	IUCR text	PRIMARY_TYPE text	DESCRIPTION text	LOCATION_DESCRIPTION text
1	5276766	HN144152	2007-01-26	050XX W VAN BUREN ST	1792	KIDNAPPING	CHILD ABDUCTION/STRANGER	STREET

6. what kinds of crimes where recorded at school

Query

Query History

1

2

3

SELECT DISTINCT "PRIMARY_TYPE", "DESCRIPTION"

FROM *chicago_crime_data*

WHERE "LOCATION_DESCRIPTION" LIKE '%SCHOOL%';

Data Output

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SQL

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	PRIMARY_TYPE text	DESCRIPTION text
1	ASSAULT	PRO EMP HANDS NO/MIN INJURY
2	BATTERY	PRO EMP HANDS NO/MIN INJURY
3	BATTERY	SIMPLE
4	CRIMINAL DAMAGE	TO VEHICLE
5	CRIMINAL TRESPASS	TO LAND
6	NARCOTICS	MANU/DEL:CANNABIS 10GM OR LESS
7	NARCOTICS	POSS: HEROIN(WHITE)
8	PUBLIC PEACE VIOLATION	BOMB THREAT

7. list the average safety score for all types of schools

Query

Query History

1

2

3

4

5

SELECT "Elementary, Middle, or High School",

AVG("SAFETY_SCORE") AS average_safety_score

FROM chicago_public_schools

GROUP BY "Elementary, Middle, or High School";

Data Output

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SQL

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	Elementary, Middle, or High School	average_safety_score
	text	double precision
1	HS	49.62352941176471
2	MS	48
3	ES	49.52038369304557

8. list top 5 community areas with the highest % of households under poverty line.

Query

Query History

1

2

3

4

5

SELECT "COMMUNITY_AREA_NAME", "PERCENT_HOUSEHOLDS_BELOW_POVERTY"

FROM *chicago_census_data*

ORDER BY "PERCENT_HOUSEHOLDS_BELOW_POVERTY" DESC

LIMIT 5;

Data Output

Messages

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SQL

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	COMMUNITY_AREA_NAME	PERCENT_HOUSEHOLDS_BELOW_POVERTY
	text	double precision
1	Riverdale	56.5
2	Fuller Park	51.2
3	Englewood	46.6
4	North Lawndale	43.1
5	East Garfield Park	42.4

9. find the community area name with the highest hardship index

The screenshot shows a SQL query interface with the following query:

```
1 SELECT "COMMUNITY_AREA_NAME", "HARDSHIP_INDEX"
2 FROM chicago_census_data
3 WHERE "HARDSHIP_INDEX" IS NOT NULL
4 ORDER BY "HARDSHIP_INDEX" DESC
5 LIMIT 1;
```

The query results are displayed in a table with the following columns: **COMMUNITY_AREA_NAME** (text) and **HARDSHIP_INDEX** (double precision). The result shows Riverdale with a hardship index of 98.

	COMMUNITY_AREA_NAME	HARDSHIP_INDEX
1	Riverdale	98

10. determine the Community Area Name with the most number of crimes

The screenshot shows a SQL query interface with the following query:

```
1 SELECT ccscd."COMMUNITY_AREA_NAME", ccscd."COMMUNITY_AREA_NUMBER",
2 COUNT(ccscd."COMMUNITY_AREA_NUMBER") AS total_crimes
3 FROM chicago_crime_data ccd
4 JOIN chicago_census_data ccscd
5 ON ccscd."COMMUNITY_AREA_NUMBER" = ccd."COMMUNITY_AREA_NUMBER"
6 GROUP BY ccscd."COMMUNITY_AREA_NUMBER", ccscd."COMMUNITY_AREA_NAME"
7 ORDER BY total_crimes DESC
8 LIMIT 1;
```

The query results are displayed in a table with the following columns: **COMMUNITY_AREA_NAME** (text), **COMMUNITY_AREA_NUMBER** (double precision), and **total_crimes** (bigint). The result shows Austin with 25 community area numbers and 43 total crimes.

	COMMUNITY_AREA_NAME	COMMUNITY_AREA_NUMBER	total_crimes
1	Austin	25	43