

# How to access the Chicago Crime dataset

## Steps:

1. First you need to set up a Google cloud account: <https://console.cloud.google.com/>
2. Next, start a new project (call it whatever you want)
3. Enable the BigQuery API (if not already enables)
4. In the navigation pane on the left, click on APIs & Services: Credentials
5. Click on "Create Credentials" and then "Service Account"
6. Enter a name and click create
7. Set role as BigQuery Admin
8. Download the key
9. Save it in your local project directory. See my path below for an example
10. In a terminal, run `pip install google-cloud-bigquery`
11. Open a notebook and recreate the cells below to access the data

```
In [1]: import os
```

```
In [11]: key_location = '/Users/thomasdolan/Desktop/1_Code/python_/school_projects/_4502_Work/key/project-289615-6aa029e308a8.json' # Replace with your key!!!
```

```
In [3]: os.environ['GOOGLE_APPLICATION_CREDENTIALS'] = key_location
```

```
In [5]: from google.cloud import bigquery
```

```
In [6]: bigquery_client = bigquery.Client()
```

```
In [7]: QUERY = """
SELECT case_number
FROM `bigquery-public-data.chicago_crime.crime`
LIMIT 10"""
```

```
In [8]: query_job = bigquery_client.query(QUERY)
```

```
In [9]: df = query_job.to_dataframe()
```

```
In [10]: df.head()
```

```
Out[10]:
```

	<b>case_number</b>
<b>0</b>	JA208742
<b>1</b>	HZ328258
<b>2</b>	HZ206740
<b>3</b>	HR496090
<b>4</b>	JC194545

**Now you can build dataframes and integrate them with other data sources!**