

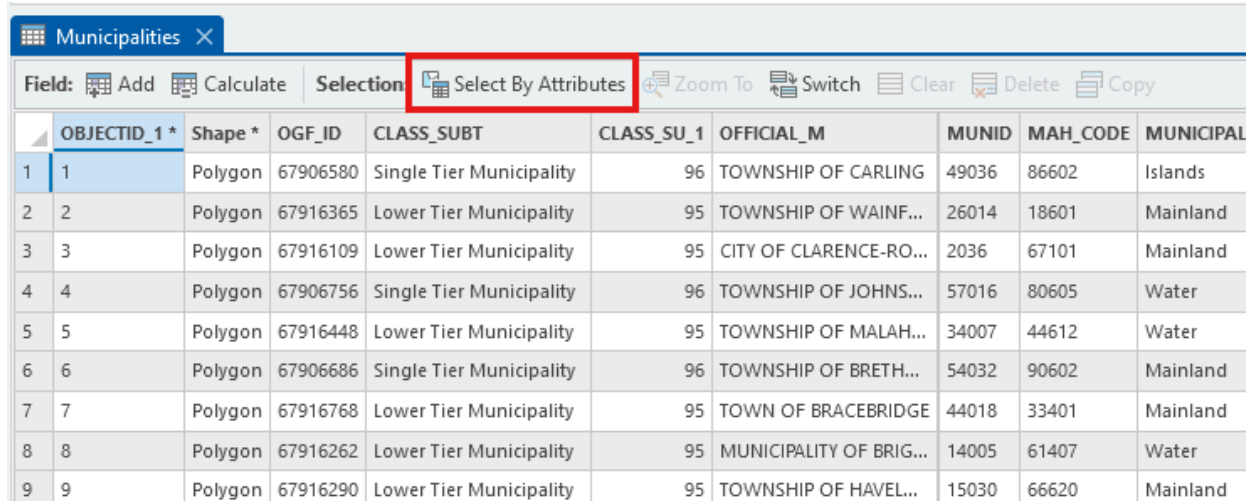
# Assignment 5 Overview

- You will examine crimes in Toronto using open data from Ontario and the City of Toronto.
- You will learn:
  - How to use the interactive query builder ([Select By Attributes](#)) to construct SQL queries in ArcGIS Pro.
  - How to create buffers in ArcGIS Pro.
  - How to clip a layer in ArcGIS Pro.
  - How to remove duplicate records in a feature layer in ArcGIS Pro.

# Submission Details

- This is a Connect Assignment.
- You will submit everything on Connect.
- The deadline is 2:00 PM on **November 19**.
- Direct all extension requests to the professor.
- If you seek an accommodation (extension), you **must** save copies of your answers (e.g., save all your answers in a Word document). Your assignments will be reset with a new deadline, and the existing answers will be cleared.

# Select By Attributes Tool

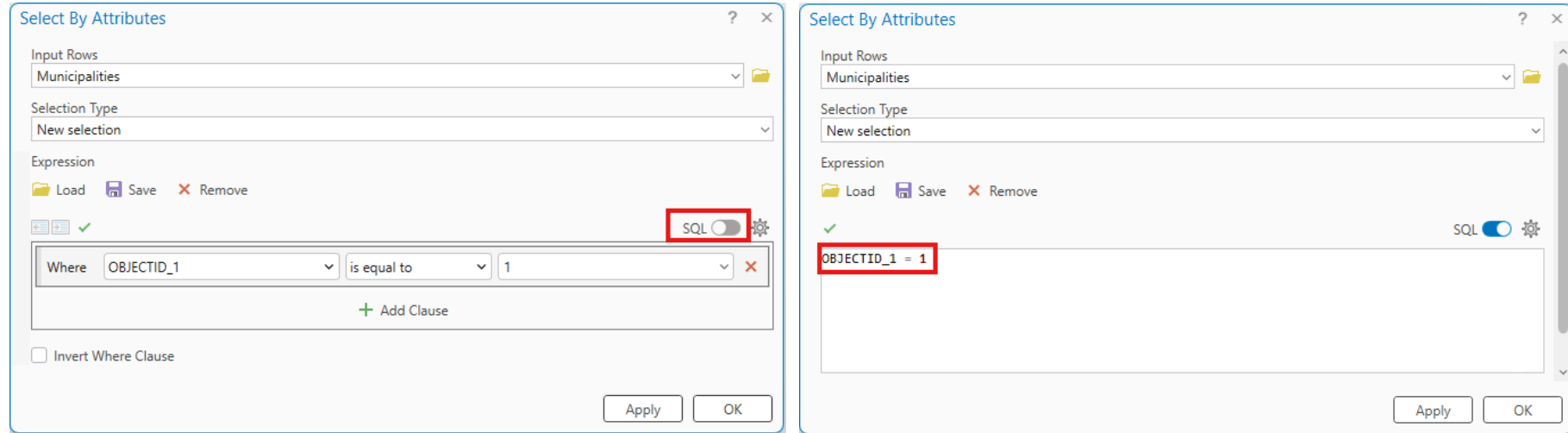


	OBJECTID_1 *	Shape *	OGF_ID	CLASS_SUBT	CLASS_SU_1	OFFICIAL_M	MUNID	MAH_CODE	MUNICIPAL_
1	1	Polygon	67906580	Single Tier Municipality	96	TOWNSHIP OF CARLING	49036	86602	Islands
2	2	Polygon	67916365	Lower Tier Municipality	95	TOWNSHIP OF WAINF...	26014	18601	Mainland
3	3	Polygon	67916109	Lower Tier Municipality	95	CITY OF CLARENCE-RO...	2036	67101	Mainland
4	4	Polygon	67906756	Single Tier Municipality	96	TOWNSHIP OF JOHNS...	57016	80605	Water
5	5	Polygon	67916448	Lower Tier Municipality	95	TOWNSHIP OF MALAH...	34007	44612	Water
6	6	Polygon	67906686	Single Tier Municipality	96	TOWNSHIP OF BRETH...	54032	90602	Mainland
7	7	Polygon	67916768	Lower Tier Municipality	95	TOWN OF BRACEBRIDGE	44018	33401	Mainland
8	8	Polygon	67916262	Lower Tier Municipality	95	MUNICIPALITY OF BRIG...	14005	61407	Water
9	9	Polygon	67916290	Lower Tier Municipality	95	TOWNSHIP OF HAVEL...	15030	66620	Mainland

You can find the **Select By Attributes** tool in the attribute table of a specific feature layer.

Note that you should click the tool button in the feature layer that you want to subset or select. Otherwise, you will need to manually adjust the **Input Rows**.

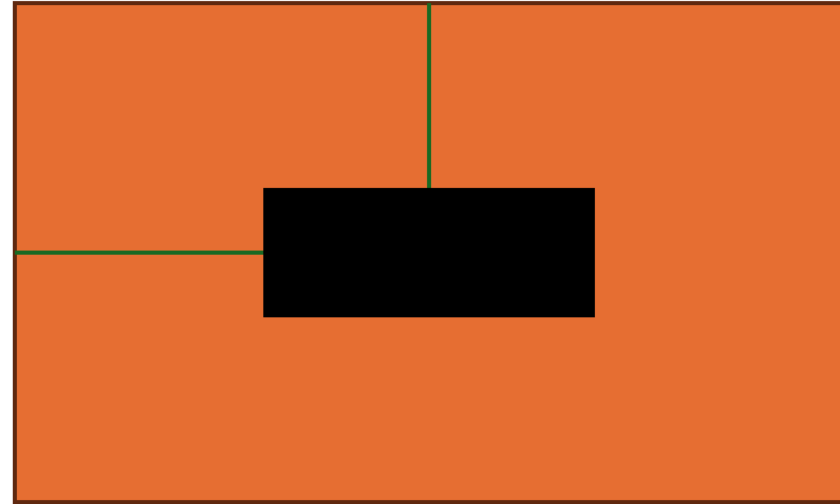
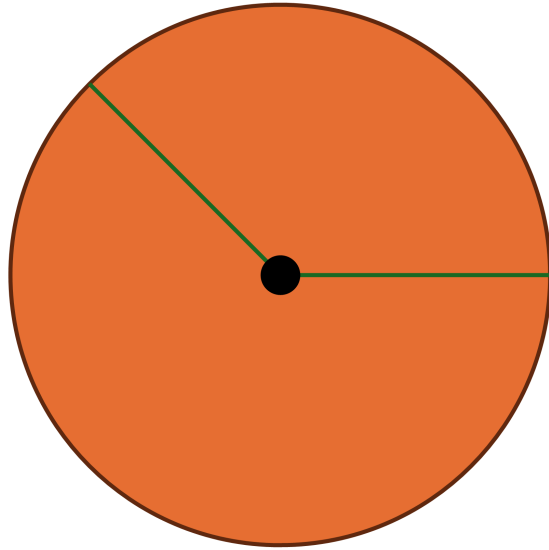
# SQL Expression



After you interactively constructed the query, you can access the corresponding SQL expression by turning on the SQL mode.

Structured Query Language (SQL) is a language used to manage data in a relational database management system.

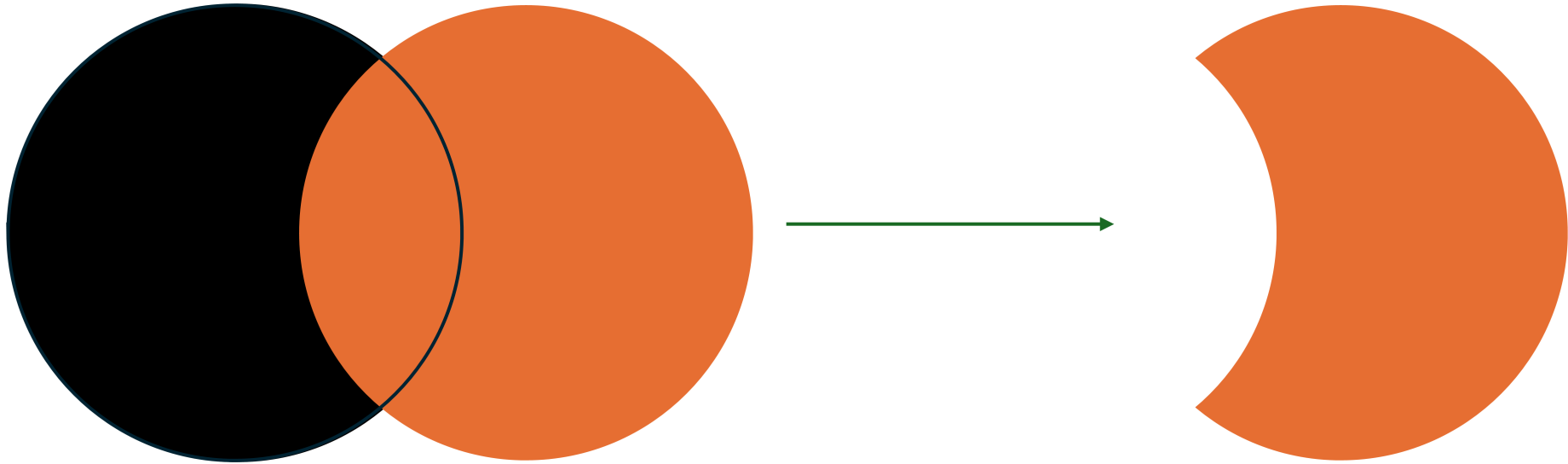
# Buffer



The black geometries are buffered, resulting in the orange geometries.

The green lines represent equal distances.

# Clip



The orange circle is clipped by the black circle.

The orange geometry is then modified.