

# Lab 3

## GIS Vector Data Analysis

**Your name: Noah Tigner**

**Deliverables:**

1. Questions 1-8
2. Final Screenshot of the areas which were selected as your final options for where to build a house

**QUESTION 1: What is the code for undeveloped? [1 point]**

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**QUESTION 2: Which attribute contains information about whether the land use is undeveloped? (Hint: there are two fields) [1 point]**

Land Use and General Land Use

**QUESTION 3: what is the difference between these two fields? [2 points]**

General Land Use is more general. Land that is developed but is under certain conditions may also qualify.

**QUESTION 4: How might your number of selected features been different had you used an “intersect” instead of the command “are completely within the source layer feature”? (Hint: you can run the different selections and just hit “Apply” instead of “OK” to see the difference). [2 points]**

The number of features would have been higher for an “intersect”, because it would also include areas that are only partially within the source layer.

**QUESTION 5: What is the difference between the Target Features and the Join Features? (Use the Help in the Spatial Join dialog box to help answer this question) [2 points]**

The target features are the features we intend to select while the join features are features that will be added into our current feature set.

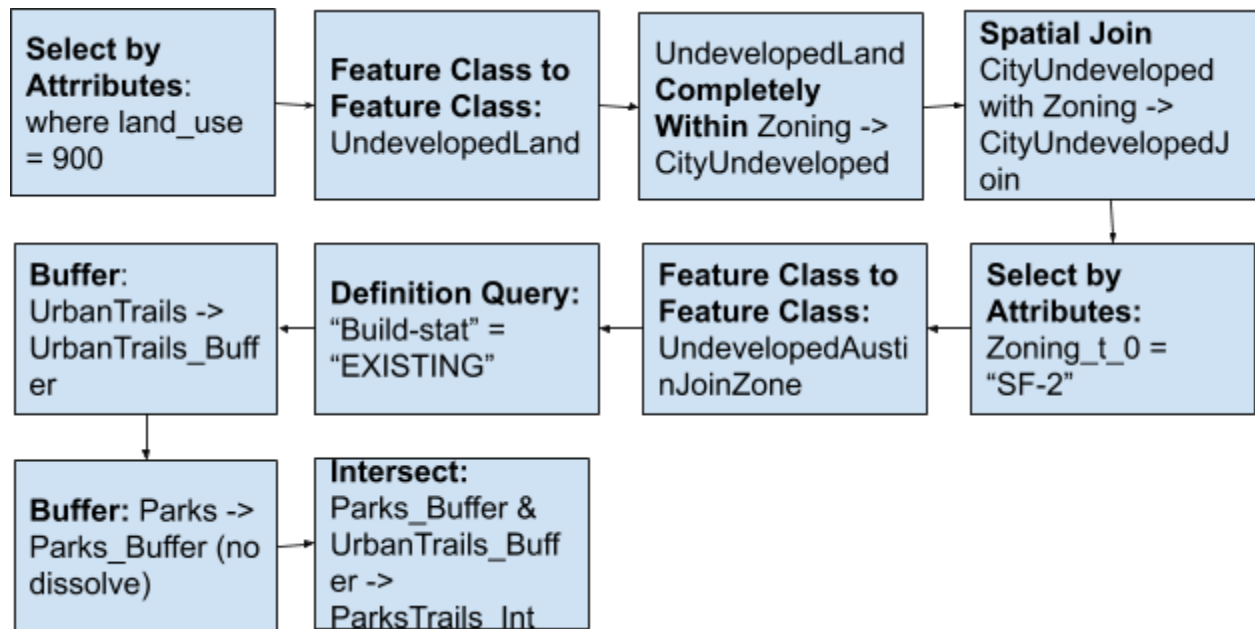
**QUESTION 6: What is a buffer? (Hint: use ArcGIS help to answer this question) [2 points]**

Buffers allow you to specify a uniform radius around the entirety of a feature. This allows queries to select the feature based on this boundary, even if the feature itself is not within a given distance (or does not otherwise fit the criteria).

**QUESTION 7: What is an intersect? [2 points]**

An intersect is the area that exists in common between two features. It is the overlapping section of a Venn diagram. For example, the intersect of X and Y is all area that is in both X AND Y.

**QUESTION 8: Make a flow chart with the vector operations you performed in this lab. This can be hand-drawn or created with boxes and arrows in Word. [4 points]**



**FINAL SCREENSHOT:** [4 points]

