

# 2 – ZÁKLADNÍ NÁSTROJE VEKTOR

I. Analysis Tools

II. Data management tools

I.A Features

I.B General

III. Attribute Table

# I. Analysis Tools

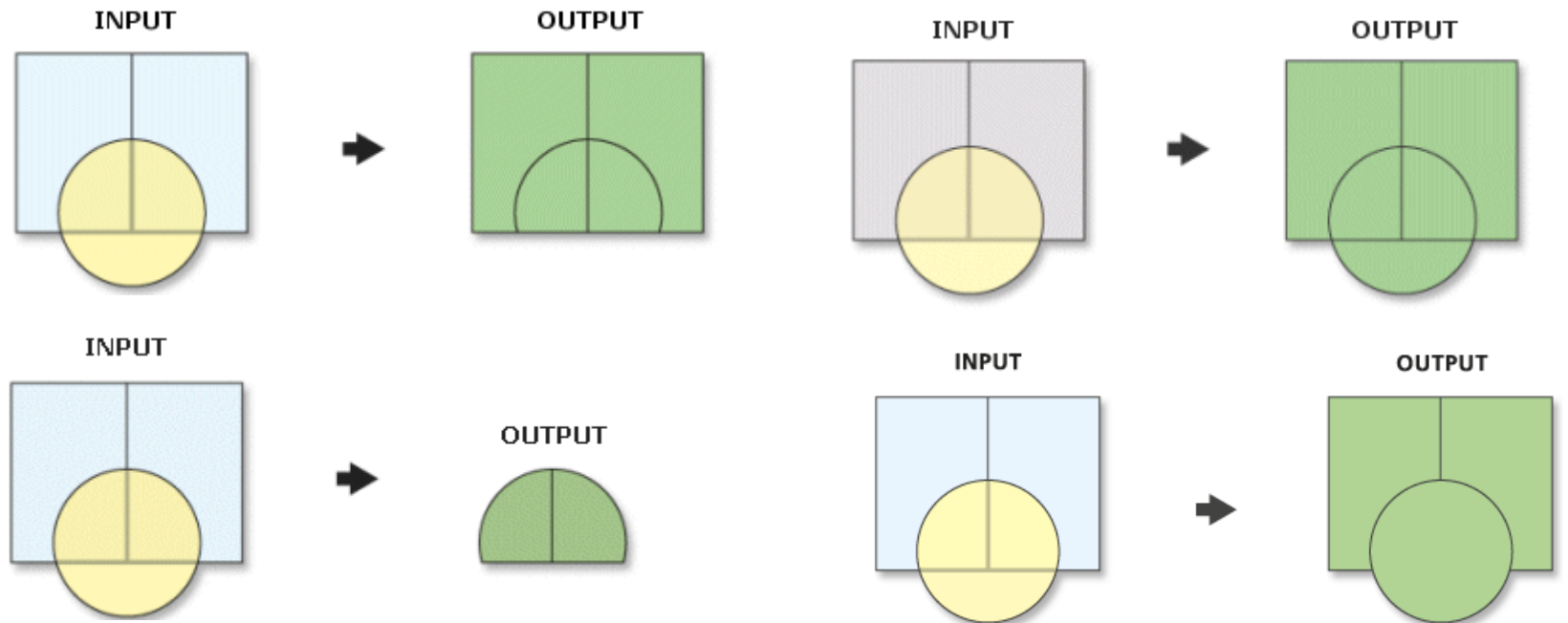
Toolsets	Description
Extract	GIS datasets often contain more data than you need. The Extract tools let you select features and attributes in a feature class or table based on a query (SQL expression) or spatial extraction. The output features and attributes are stored in a feature class or table.
Overlay	The Overlay toolset contains tools to overlay multiple feature classes to combine, erase, modify, or update spatial features, resulting in a new feature class. New information is created when overlaying one set of features with another. There are six types of overlay operations; all involve joining two existing sets of features into a single set of features to identify spatial relationships between the input features.
Proximity	The Proximity toolset contains tools that are used to determine the proximity of features within one or more feature classes or between two feature classes. These tools can identify features that are closest to one another or calculate the distances between or around them.
Statistics	The Statistics toolset contains tools that perform standard statistical analysis (such as mean, minimum, maximum, and standard deviation) on attribute data as well as tools that calculate area, length, and count statistics for overlapping and neighboring features.

# LA Analysis Tools - Extract

- Clip
- Select
- Split
- Table Select

# I.B Analysis Tools - Overlay

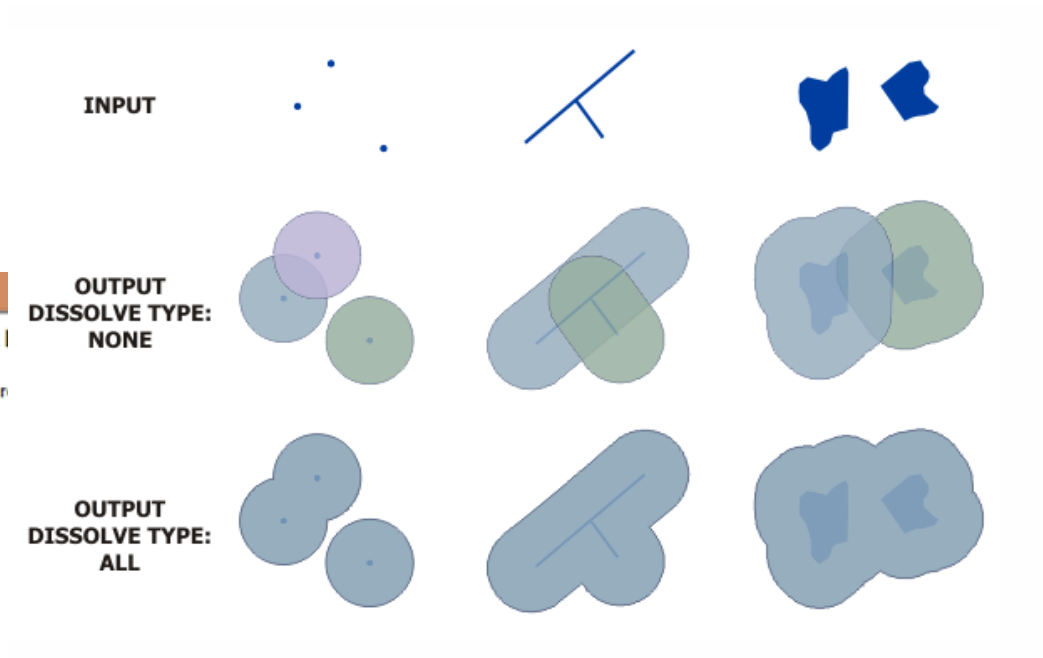
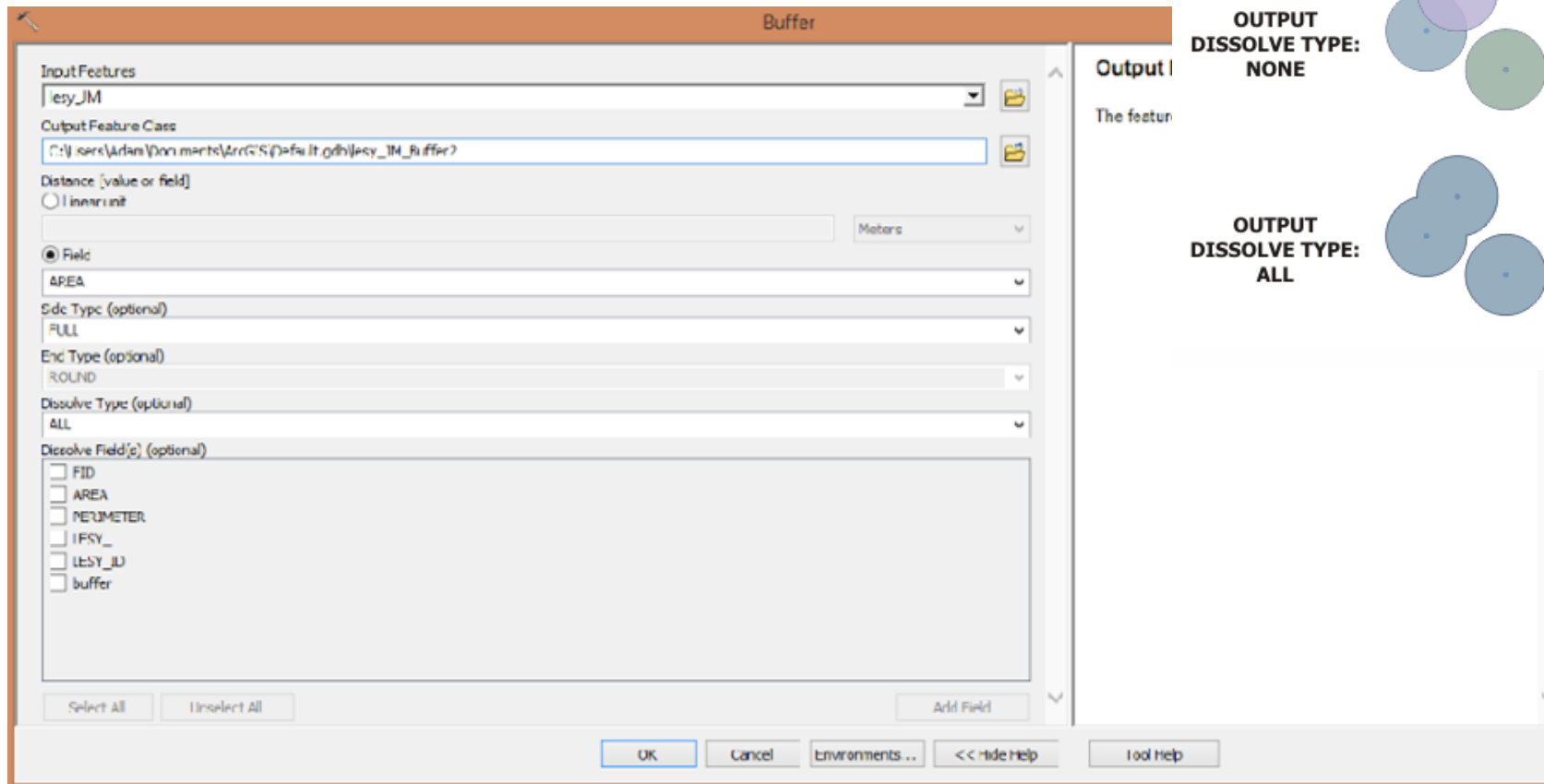
- Erase
- Identity
- Intersect
- Spatial Join
- Union
- Update



# I.C Analysis Tools - Proximity

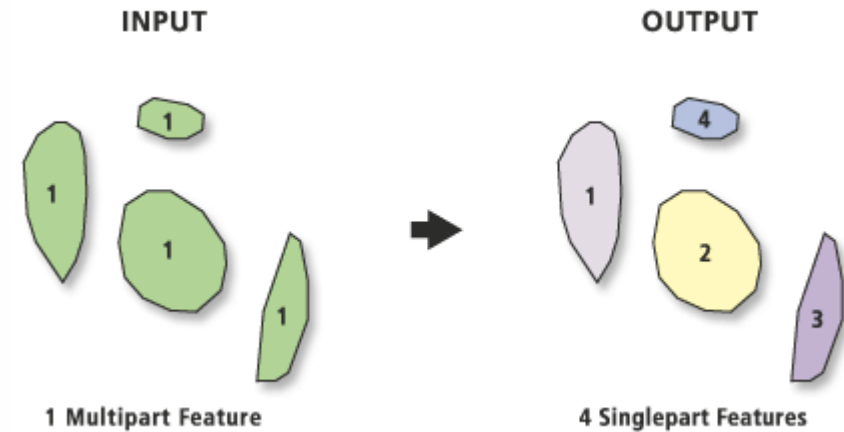
- Buffer
- Thiessen Polygons
- Near
- Point Distance
- ...

# Buffer EXTRACT

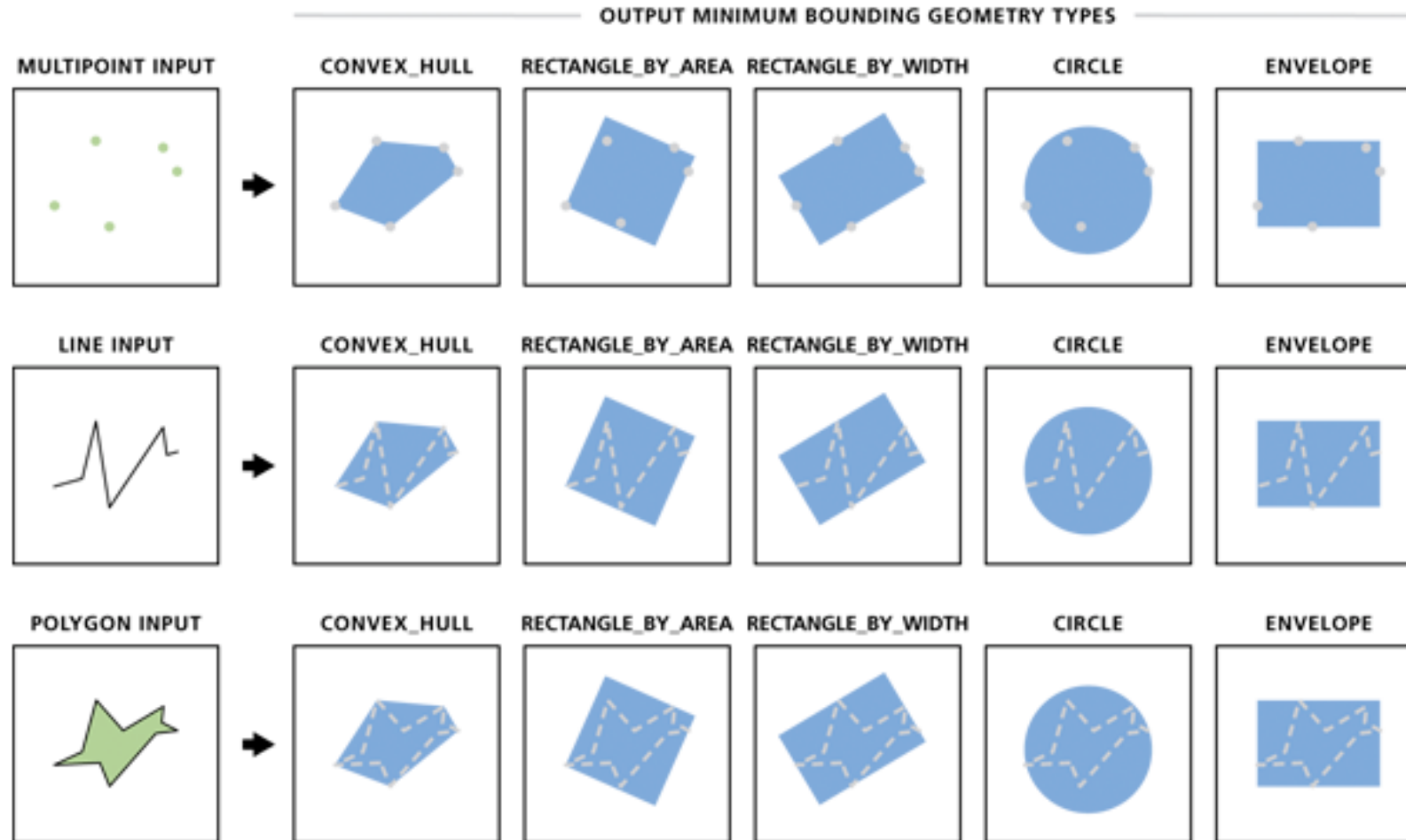


# II. Data Management Tools - Features

- Add Geometry Attributes
- Check Geometry
- Copy Features
- Delete Features
- Feature to Point/Line/Polygon
- Minimum Bounding Geometry
- Multipart to Singlepart
- ...



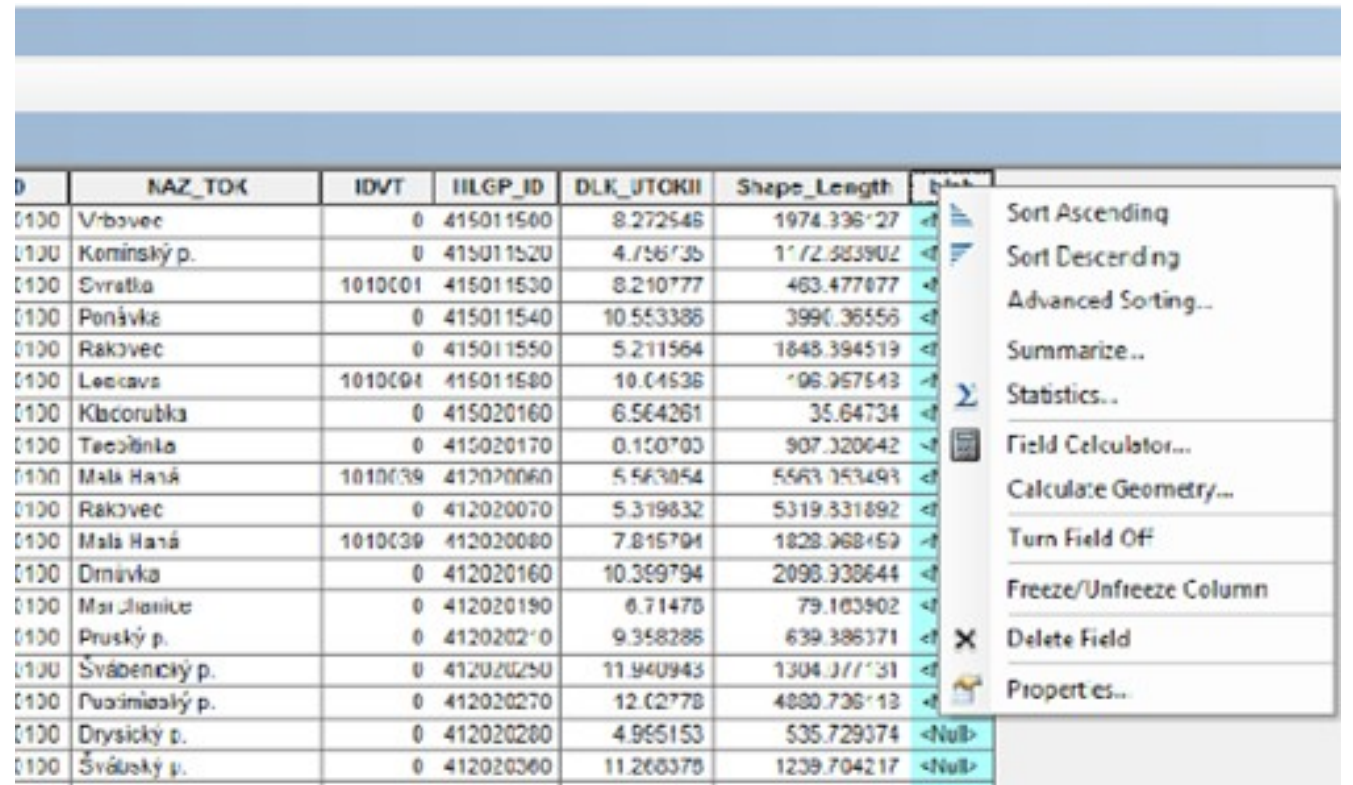
# Minimum Bounding Geometry





# II. Attribute table

- Summarize
- Statistics
- Field Calculator
- Calculate Geometry
- Create Graph

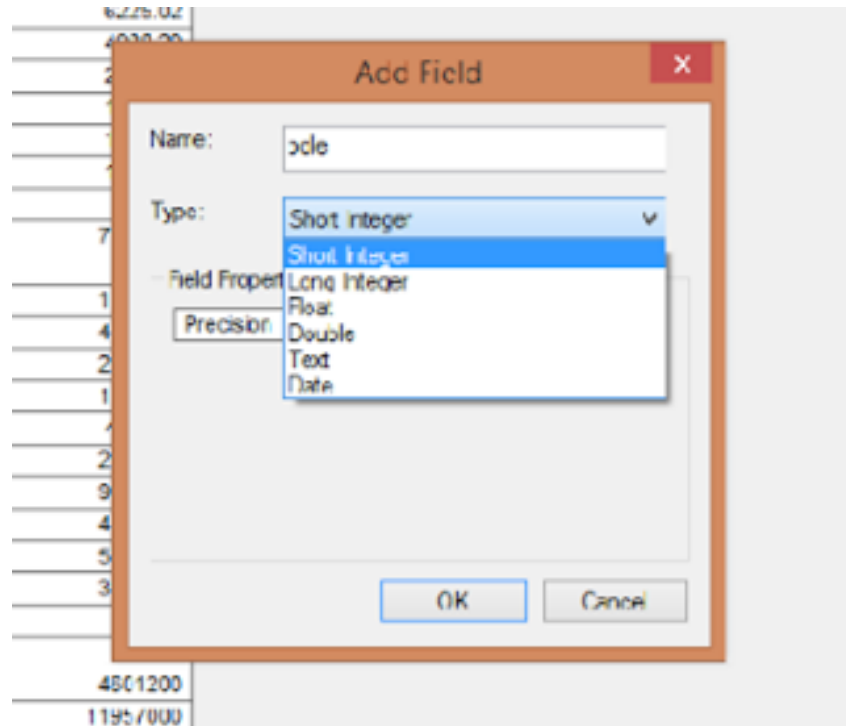


The screenshot shows a GIS attribute table with the following columns: ID, NAZ\_TOK, IDVT, IILGP\_ID, DLK\_UTOKII, Shape\_Length, and a column with a blue header. A context menu is open over the 'Shape\_Length' column, listing various actions: Sort Ascending, Sort Descending, Advanced Sorting..., Summarize..., Statistics..., Field Calculator..., Calculate Geometry..., Turn Field Off, Freeze/Unfreeze Column, Delete Field, and Properties... The table contains 20 rows of data with various values in the 'Shape\_Length' column, some of which are highlighted in blue.

ID	NAZ_TOK	IDVT	IILGP_ID	DLK_UTOKII	Shape_Length	
0100	Vrbovec	0	415011500	8.272548	1974.398127	
0100	Kominský p.	0	415011520	4.756135	1172.583902	
0100	Svratka	1010001	415011530	8.210777	463.477877	
0100	Ponávka	0	415011540	10.553388	3990.36556	
0100	Rakovec	0	415011550	5.211564	1848.394519	
0100	Leccava	1010001	415011580	10.04538	196.957543	
0100	Kladorubka	0	415020160	6.564261	35.64734	
0100	Tečobítka	0	415020170	0.150703	907.320042	
0100	Mala Haná	1010039	412020060	5.563854	5563.753493	
0100	Rakovec	0	412020070	5.319832	5319.531892	
0100	Mala Haná	1010039	412020080	7.815794	1828.968159	
0100	Dmávkva	0	412020160	10.359794	2098.938644	
0100	Majdlovice	0	412020190	6.71476	79.163902	
0100	Pruský p.	0	412020210	9.358288	639.386371	
0100	Švábenický p.	0	412020250	11.940943	1304.377131	
0100	Puozimický p.	0	412020270	12.02778	4880.738113	
0100	Drysický p.	0	412020280	4.955153	535.729374	<Null>
0100	Švábský p.	0	412020360	11.268378	1239.704217	<Null>

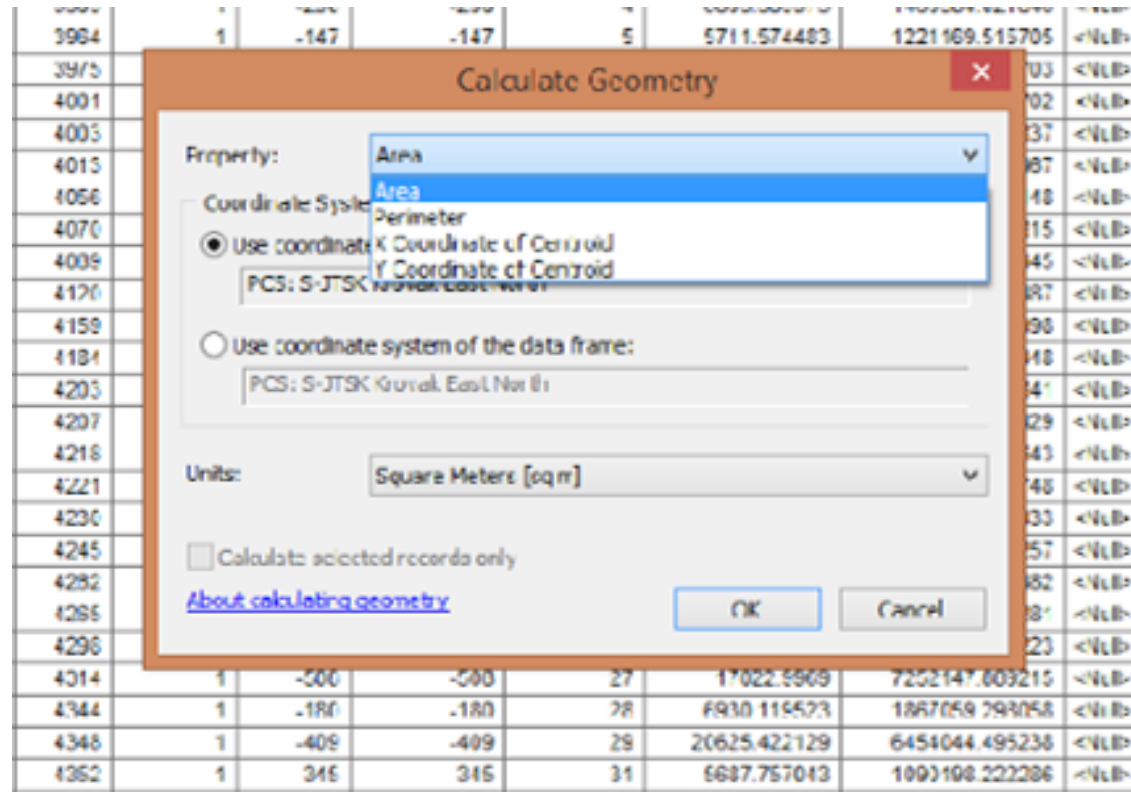
# Add Field

ATTRIBUTE TABLE



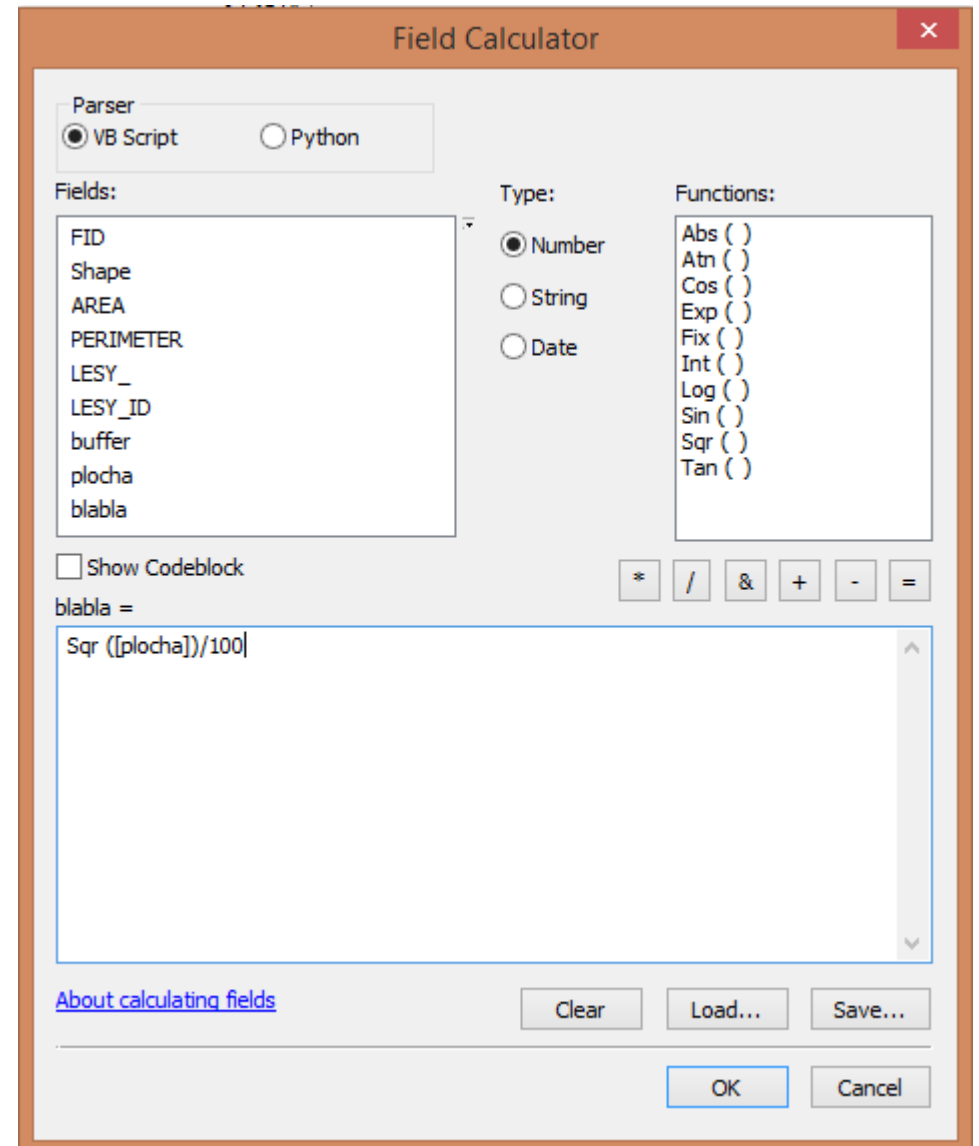
# Calculate Geometry

ATTRIBUTE TABLE



# Field Calculator

## ATTRIBUTE TABLE



# Summary

## ATTRIBUTE TABLE

Summarize

Summarize creates a new table containing one record for each unique value of the selected field, along with statistics summarizing any of the other fields.

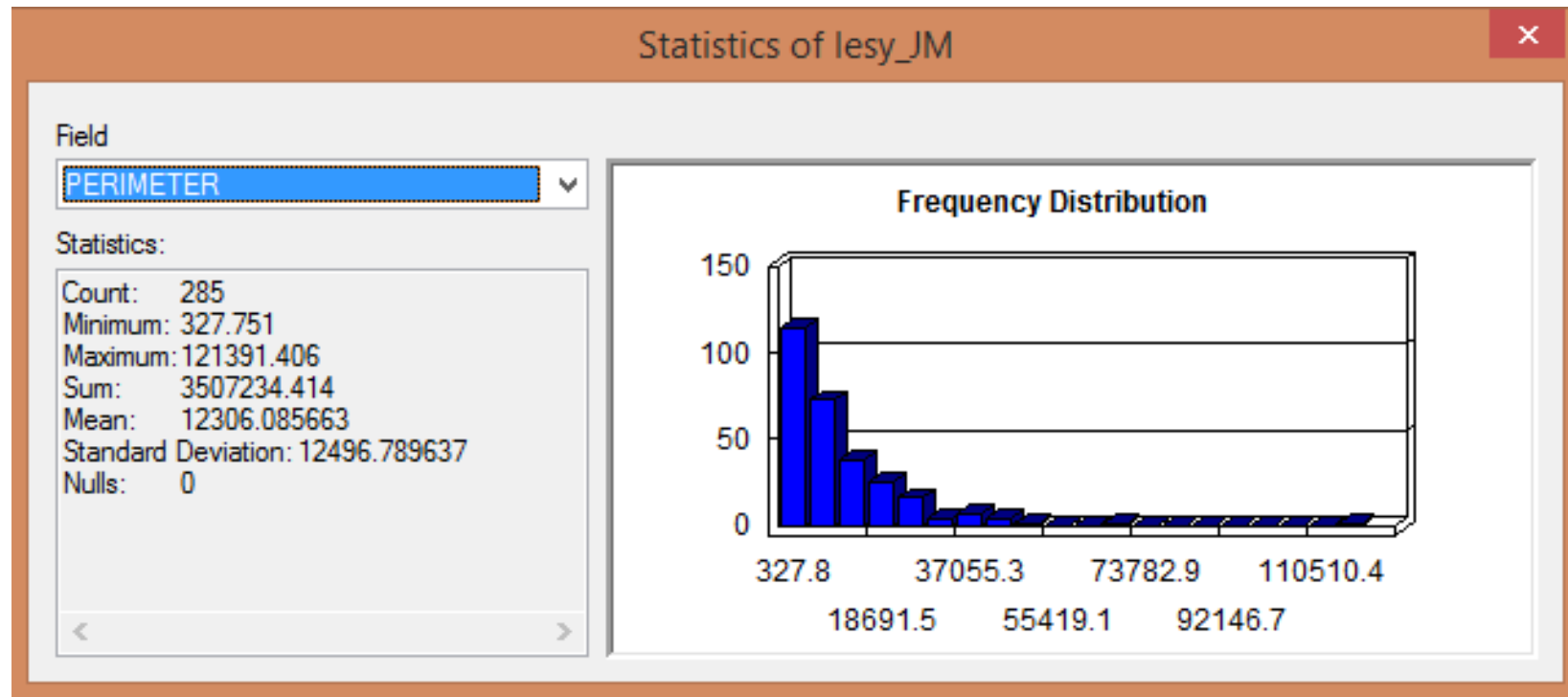
1. Select a field to summarize:  
blabla
2. Choose one or more summary statistics to be included in the output table:
  - Sum
  - Standard Deviation
  - Variance
  - [-] plocha
    - Minimum
    - Maximum
    - Average
    - Sum
    - Standard Deviation
    - Variance
3. Specify output table:  
phd\vyuka\Modelovani\2015\cv4\data\Sum\_O\jput.dbf

Summarize on the selected records only

[About summarizing data](#)

# Statistics

## ATTRIBUTE TABLE



# Create Graph

## ATTRIBUTE TABLE

