



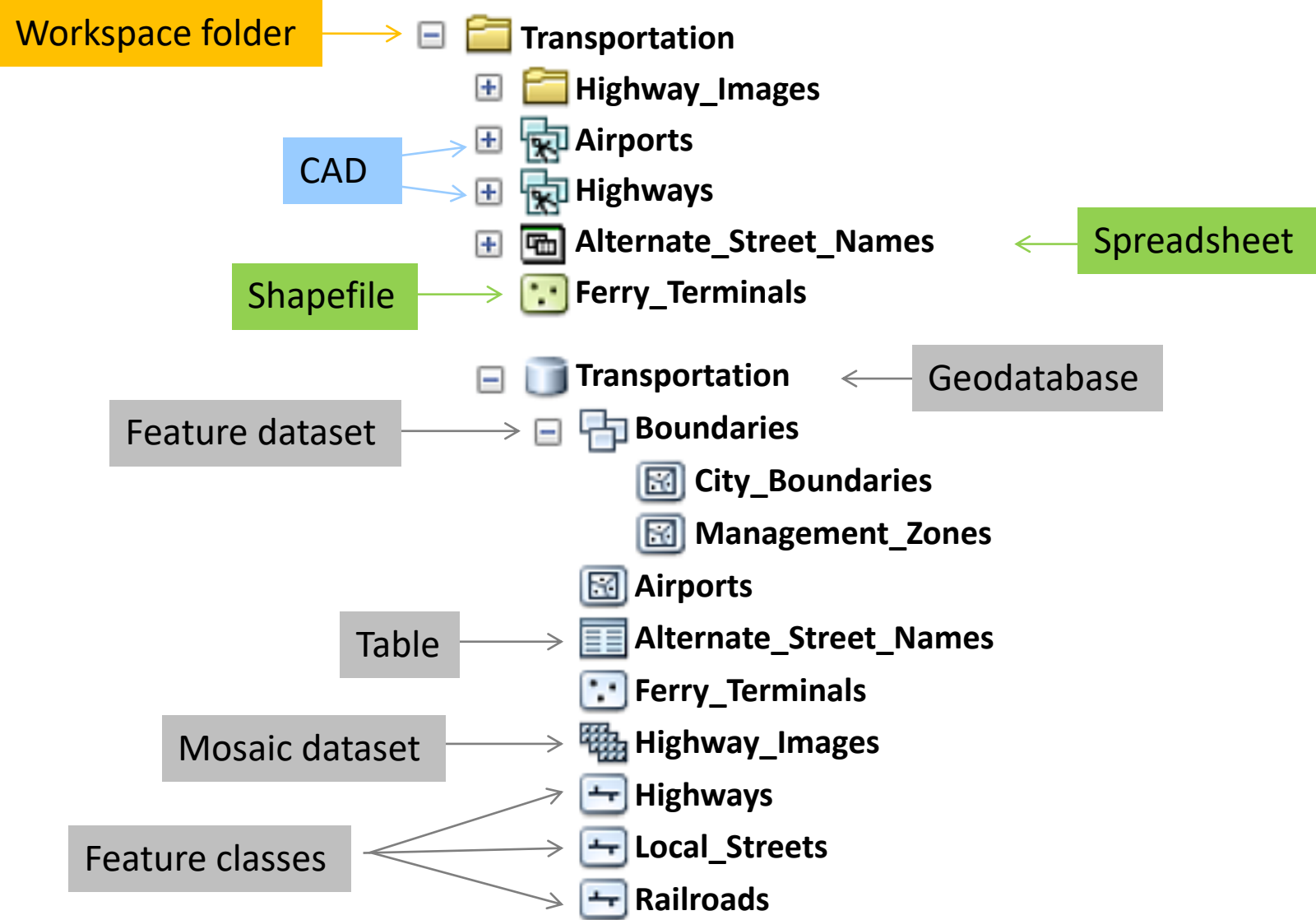
Creating and editing data

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Commonly used data in ArcGIS

Data type	Description
Address	<ul style="list-style-type: none">• Descriptive locations• Street address, ZIP Code, county, state
CAD	<ul style="list-style-type: none">• Computer-Aided Design• Engineering and design drawings
Elevation	<ul style="list-style-type: none">• Height or depth in relation to reference surface, such as mean sea level• Many supported raster and vector formats
Geodatabase	<ul style="list-style-type: none">• Native format for ArcGIS• Storage of features, tables, and behaviors in a relational database
Imagery	<ul style="list-style-type: none">• Aerial photos or satellite images• Many supported raster formats
KML	<ul style="list-style-type: none">• Keyhole Markup Language• Commonly used with Google Earth and Internet-based GIS applications
Shapefile	<ul style="list-style-type: none">• Simple format for storing point, line, and area features
Temporal	<ul style="list-style-type: none">• Time or date information for geographic locations
X,Y or X,Y,Z	<ul style="list-style-type: none">• Coordinate values• May include elevation or Z values

Getting data into the geodatabase

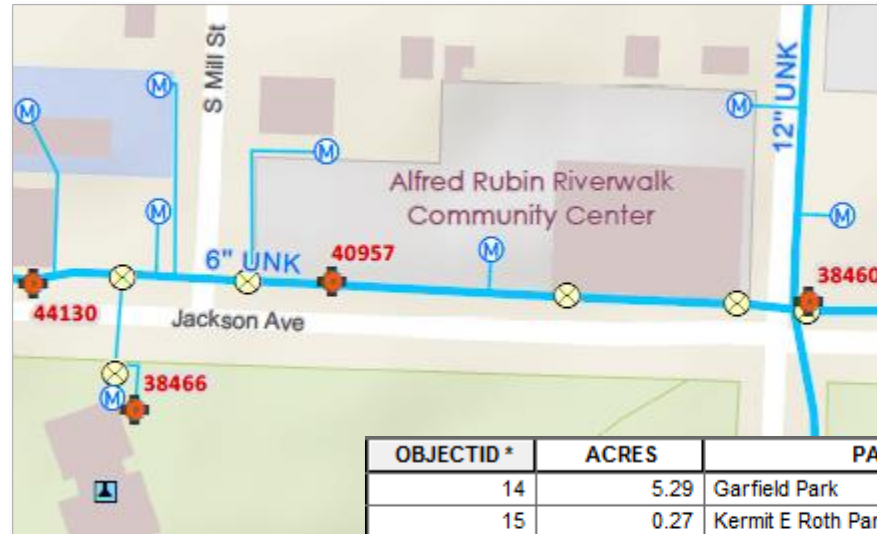


Editing GIS data

What does it mean to edit your data?

Why edit?

What types of data can you edit?

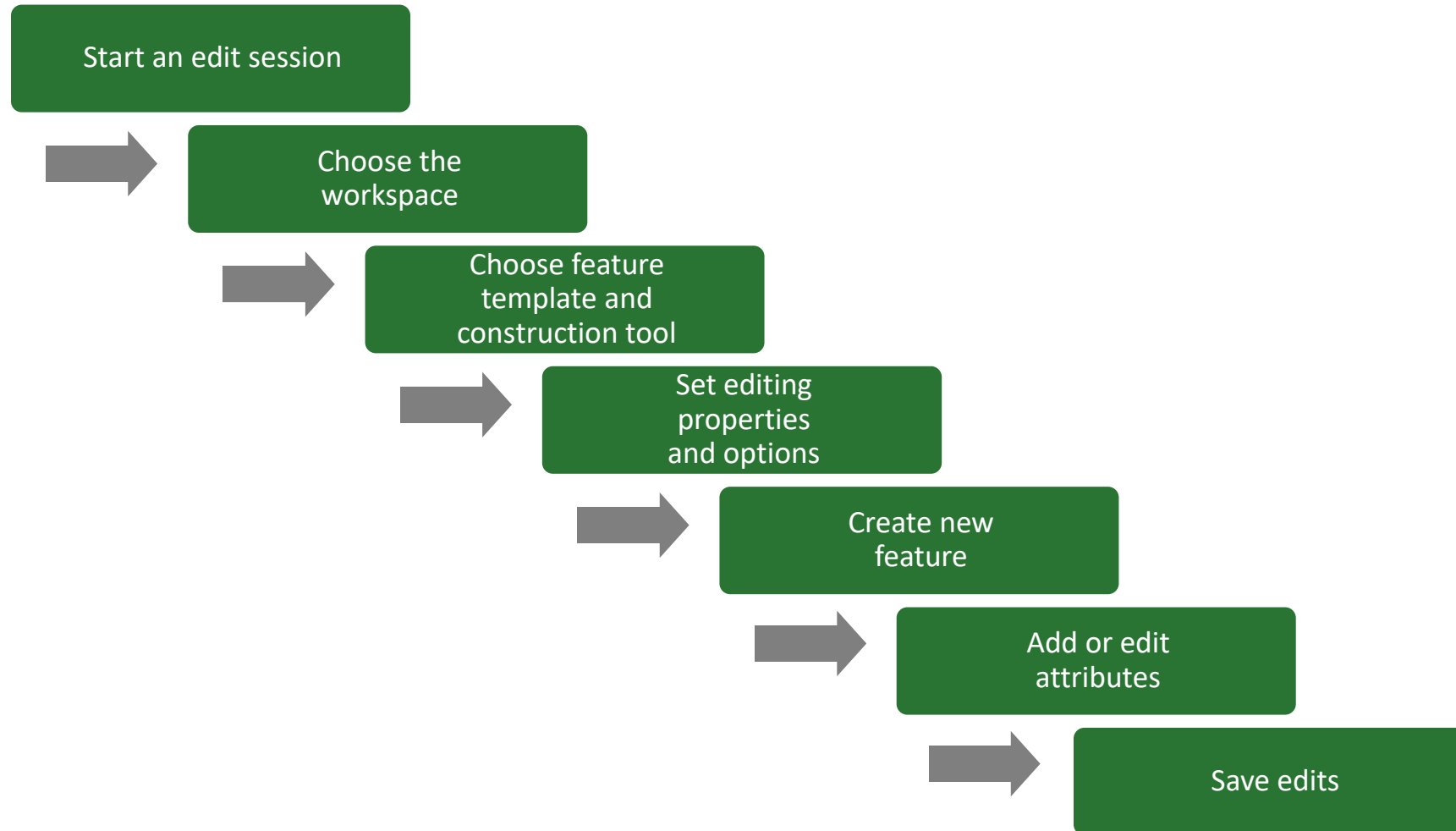


- Point
- Line
- Polygon

- Geodatabase
- Shapefile
- Nonspatial database tables

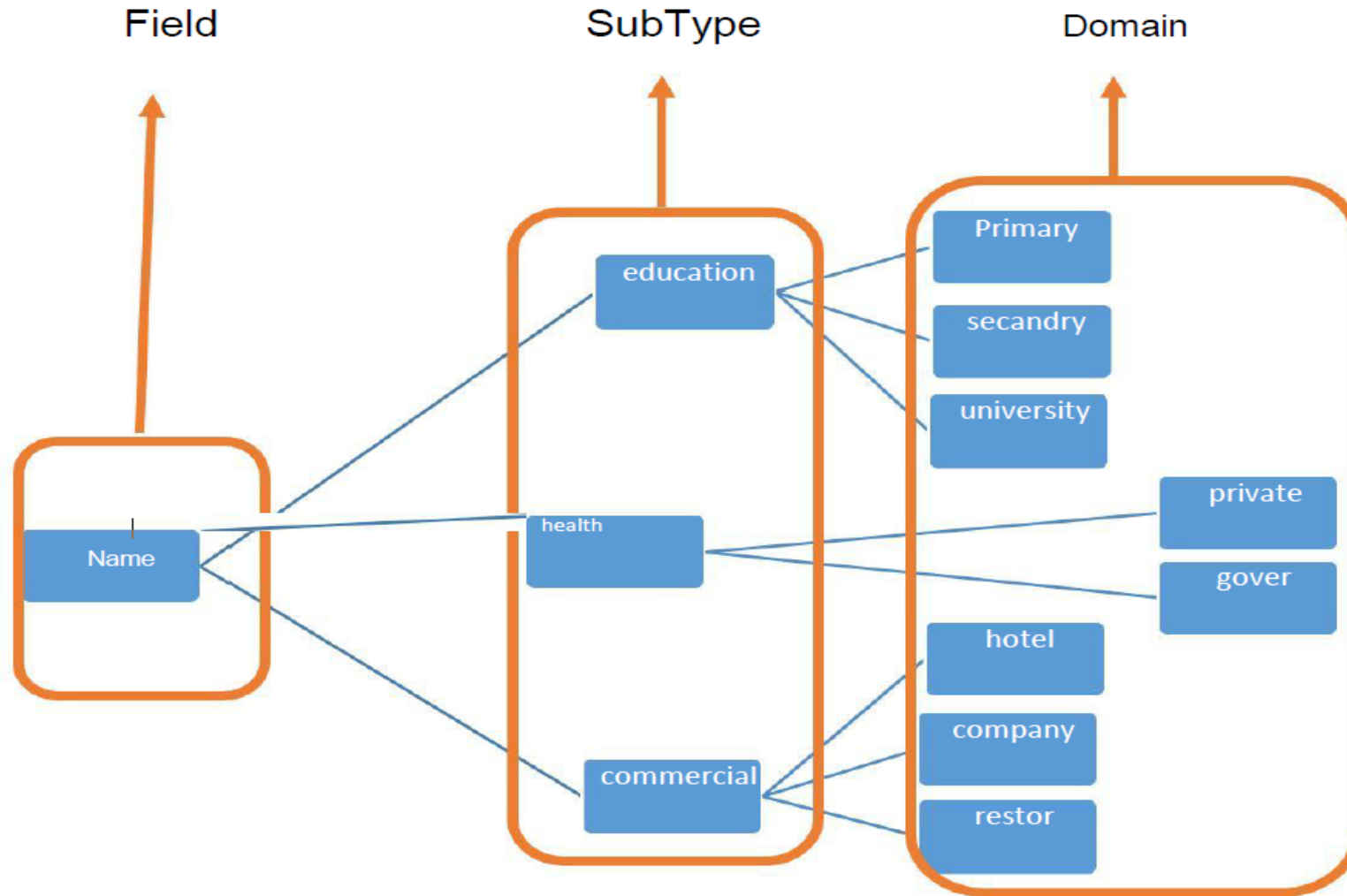
OBJECTID *	ACRES	PARK_NAME
14	5.29	Garfield Park
15	0.27	Kermit E Roth Park
16	1.78	Lilly Park
17	59.31	Martin Luther King, Jr. Park
18	0.24	Peanut Park
19	30.25	Pioneer Park
20	6.51	Porter Park
21	3.7	Riverfront Park
22	4.46	Shawala Point
23	10.46	Starker Arts Park
24	17.81	Sunset Park

The ArcGIS editing workflow

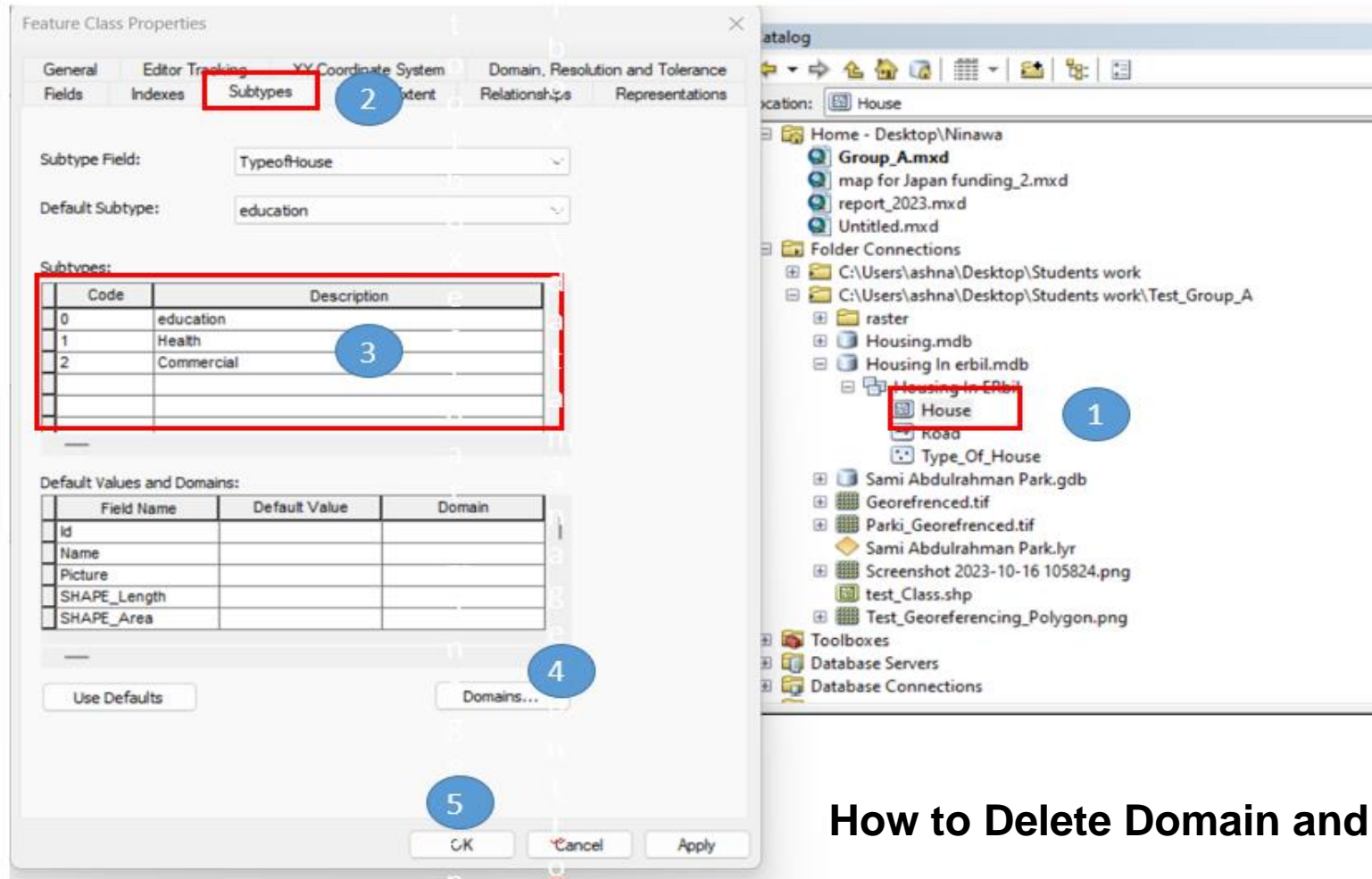


more information about editing: https://desktop.arcgis.com/en/arcmap/latest/manage-data/editing/a-quick-tour-of-editing.htm#ESRI_SECTION1_6967BD2F3090445C845B050E743D3AE5

How to add the data into the Geodatabase as the list or a multiple-choice as an example;



How to Create Domain and Subtype



How to Delete Domain and Subtype

ArcToolbox → Data management Tools → Domain → Delete Domain

ArcToolbox → Data management Tools → Subtype → Remove Subtype

How to add the URL in the attribute

New Feature Class

Field Name	Data Type
OBJECTID	Object ID
SHAPE	Geometry
ID	Short Integer
Nmae	Text
Link	Text

Click any field to see its properties.

Field Properties

Alias	Link
Allow NULL values	Yes
Default Value	
Length	50

To add a new field, type the name into an empty row in the Field Name column, click in the Data Type column to choose the data type, then edit the Field Properties.

< Back Finish Cancel



Layer Properties

General Source Selection Display Symbology Fields Definition Query Labels Joins & Relates Time HTML Popup

☒ Scale symbols when a reference scale is set

Transparent: 0 %

Display Expression

Field: Purpose_House Expression...

☐ Show MapTips using the display expression

Hyperlinks

☒ Support Hyperlinking field:

website Document ☒ URL ☐ Script Edit...

Feature Exclusion

The following features are excluded from drawing:

Feature ID	Purpose_House
------------	---------------

Restore Drawing Restore All

OK Cancel Apply



How to add the Picture in the attribute

Add Field

1

Name:

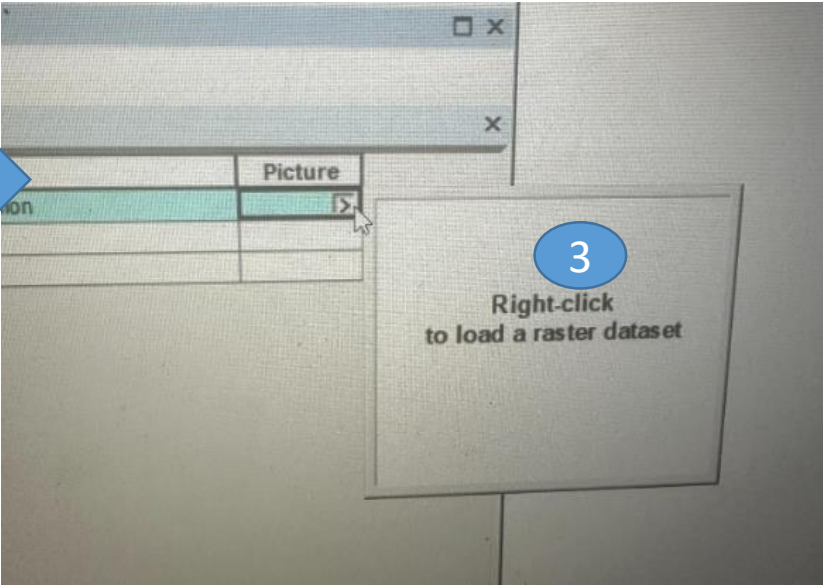
2

Type:

Field Properties

Alias	
Description	
Managed By GDB	Yes

OK Cancel



4

Identify

Identify from:

Polygon

Location: 143.151809 -81.598656 Decimal Degrees

Field	Value
OBJECTID	1
SHAPE	Polygon
Purpose_House	Health
Sub_Type	<null>
SHAPE_Length	601.930117
SHAPE_Area	16739.867398
Sub	<null>
website	https://evwhs.digitalglobe.com/myDigitalGlobe/logout-from-ended-session
Picture	<Raster>
Name	<null>

Raster Viewer

Select By Attributes

Table

Find and Replace...

Select By Attributes...

Clear Selection

Switch

Select

Add

Turn All Fields On

Show Field Aliases

Arrange Tables

Restore Default Column Widths

Restore Default Field Order

Joins and Relates

Related Tables

Create Graph...

Add Table to Layout

Reload Cache

Print...

Reports

Export...

Appearance...

Select By Attributes

Select records by composing a query.

Select by Attributes

Enter a WHERE clause to select records in the table window.

Method : Create a new selection

[OBJECTID]
[NAME]
[R_CLASS]
[LONGITUDE]
[LATITUDE]

= <> Like 0
> >= And 1
< <= Or 2

? * () Not

Is In Null Get Unique Values Go To:

SELECT * FROM Roads WHERE:
[R_CLASS] = 1

Clear Verify Help Load... Save...
Apply Close

Table

Roads

	OBJECTID *	Shape *	NAME	R_CLASS	LONGITUDE	LATITUDE	Shape_Length
▶	1	Polyline		1	0	0	0.746661
	2	Polyline		1	0	0	0.211162
	3	Polyline		1	0	0	0.328461
	4	Polyline		1	0	0	0.494962
	5	Polyline		1	0	0	0.23369
	6	Polyline		1	0	0	0.099652
	7	Polyline	2	1	0	0	0.203048
	8	Polyline		1	0	0	0.024668
	9	Polyline		2	0	0	0.475143
	10	Polyline		1	0	0	0.126861
	11	Polyline		0	0	0	0.179522
	12	Polyline	0	0	0	0	0.029852
	13	Polyline	0	0	0	0	0.033856

4

Calculate Geometry

Table

Polygon

	OBJECTID *	SHAPE *	SHAPE_Length	SHAPE_Area	Area
	1	Polygon	0.016599	0.000016	<Null>
	2	Polygon	0.016715	0.000017	<Null>
	3	Polygon	0.013731	0.000012	<Null>
	4	Polygon	0.017639	0.000019	<Null>
	5	Polygon	0.015472	0.000014	<Null>
	6	Polygon	0.028695	0.000042	<Null>
	7	Polygon	0.024638	0.000024	<Null>
	8	Polygon	0.032796	0.000044	<Null>
	10	Polygon	0.008821	0.000006	<Null>
	11	Polygon	0.014908	0.000016	<Null>
	12	Polygon	0.032541	0.000067	<Null>
	13	Polygon	0.044527	0.000106	<Null>
	14	Polygon	0.045507	0.000098	<Null>
	15	Polygon	0.029654	0.000048	<Null>
	16	Polygon	0.035076	0.000074	<Null>
	17	Polygon	0.017105	0.000016	<Null>
	19	Polygon	0.03528	0.000063	<Null>

Sort Ascending
Sort Descending
Advanced Sorting...
Summarize...
Statistics...
Field Calculator...
Calculate Geometry...

Calculate Geometry
Populate or update the values of this field to be geometric values derived from the features that the table represents, such as area, perimeter, length, etc. The dialog that appears lets you choose whether all the records will be calculated or just the selected records. This command is disabled if the table is not the attribute table of a feature class or shapefile.