ARC-GIS

EXCERCISE: 2

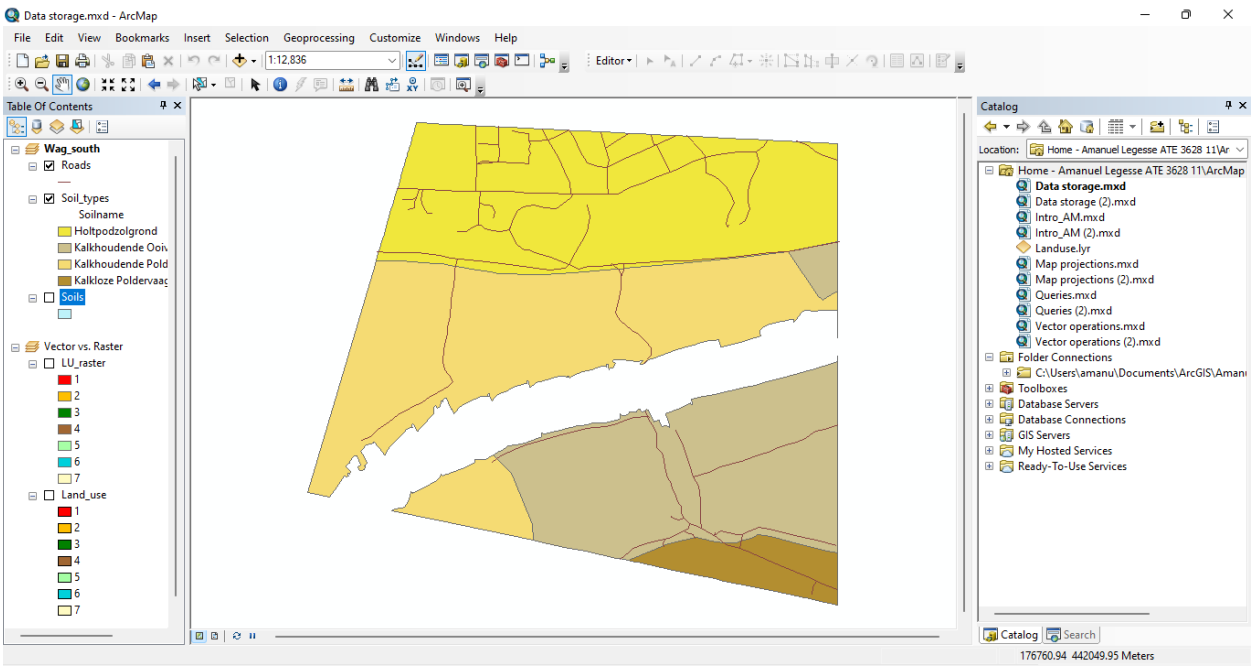
ArcGIS

BY – AMANUEL LEGESSE SOFTWARE ENG. EXT

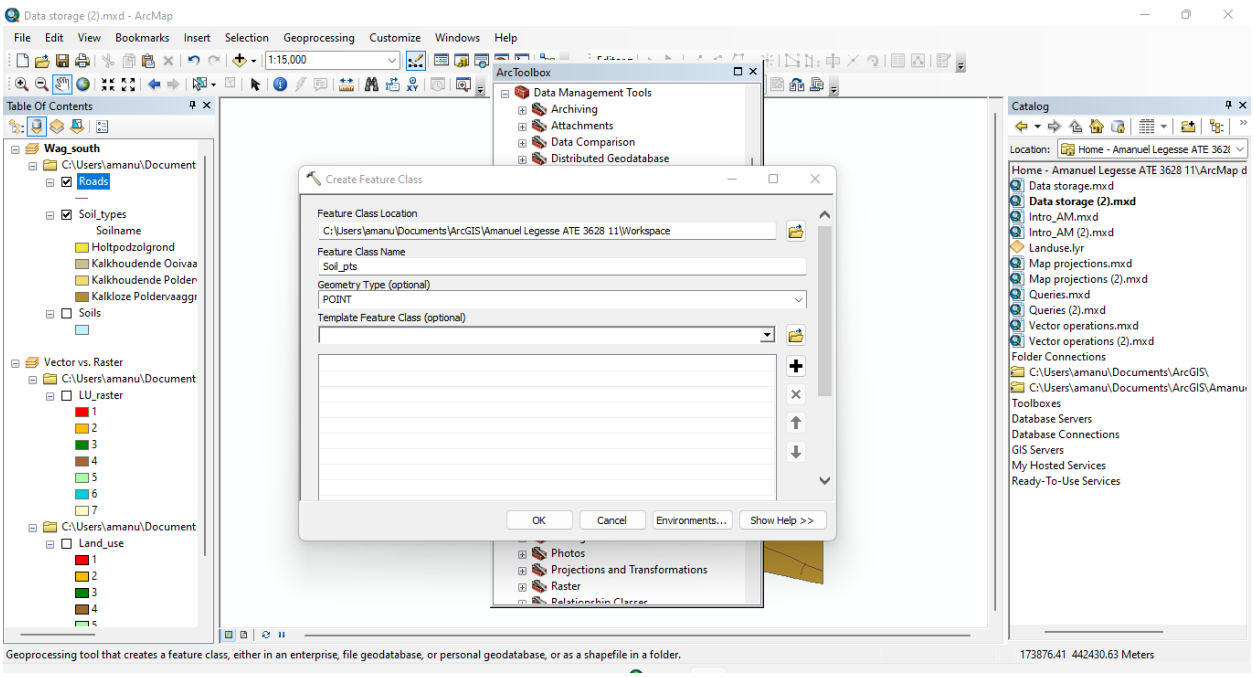
ID – ATE/3628/11

Creating a point dataset

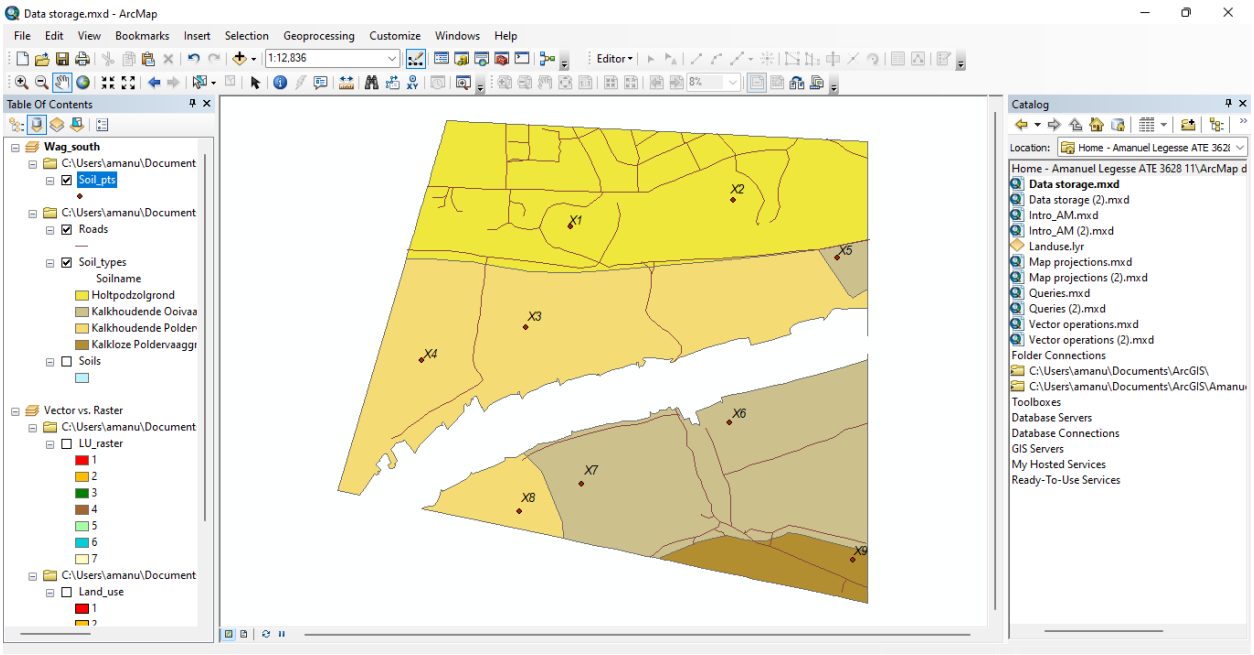
1.1:



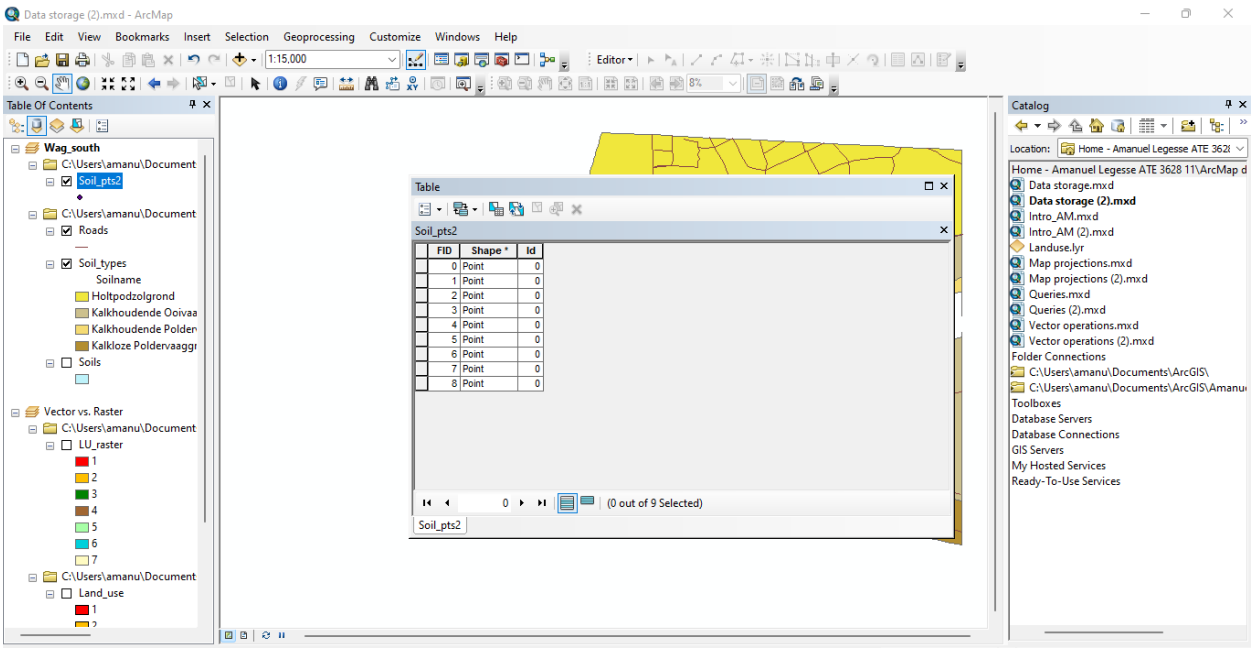
1.A:



1.B:



1.C: The attribute table of dataset 'Soil_pts' contains 9 records.



Adding attributes to point features

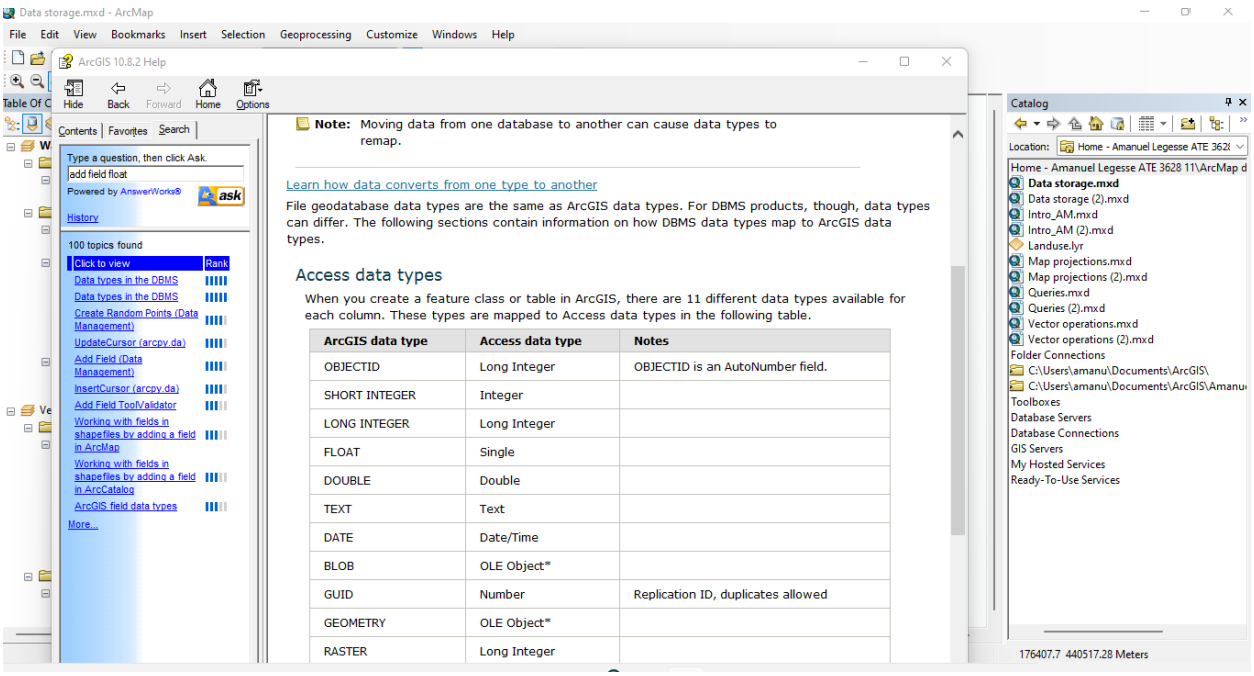
2.A

FLOAT — Numeric values with fractional values within a specific range

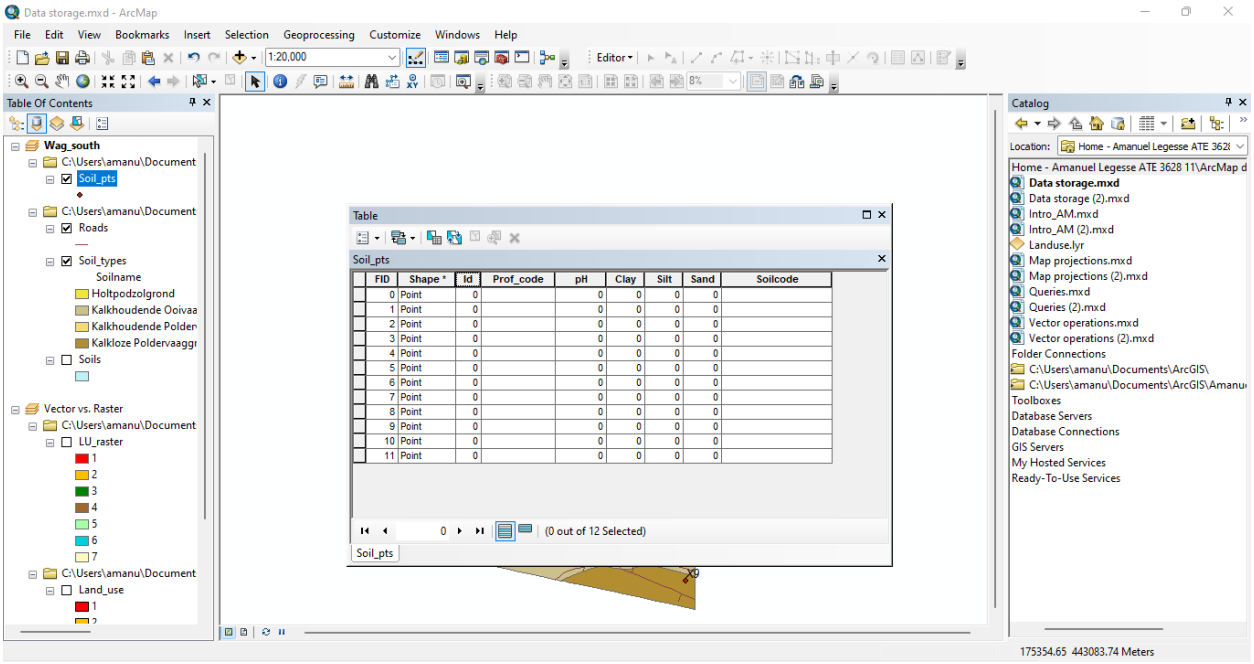
Integer - Numeric values without fractional values within specific range

The TEXT data type stores any kind of text data. It can contain both single-byte and multi byte characters that the locale supports.

The date data type **can store dates, times, or dates and times**. The default format in which the information is presented is mm/dd/yyyy hh:mm:ss and a specification of AM or PM.



2.B:


Data storage.mxd - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:20,000
Table Of Contents
Wag_south
Soil_pts
Roads
Soil_types
Soilname
Holtpodzolgrond
Vector vs. Raster
LU_raster
Land_use
Table
Soil_pts
FID Shape * Id Prof_code pH Clay Silt Sand Soilcode
0 Point 0 0 0 0 0
1 Point 0 0 0 0 0
2 Point 0 0 0 0 0
3 Point 0 0 0 0 0
4 Point 0 0 0 0 0
5 Point 0 0 0 0 0
6 Point 0 0 0 0 0
7 Point 0 0 0 0 0
8 Point 0 0 0 0 0
9 Point 0 0 0 0 0
10 Point 0 0 0 0 0
11 Point 0 0 0 0 0
(0 out of 12 Selected)
Catalog
Location: Home - Amanuel Legesse ATE 3628
Home - Amanuel Legesse ATE 3628 11\ArcMap d
Data storage.mxd
Data storage (2).mxd
Intro_AM.mxd
Intro_AM (2).mxd
Landuse.lyr
Map projections.mxd
Map projections (2).mxd
Queries.mxd
Queries (2).mxd
Vector operations.mxd
Vector operations (2).mxd
Folder Connections
Toolboxes
Database Servers
Database Connections
GIS Servers
My Hosted Services
Ready-To-Use Services
175354.65 443083.74 Meters

2.C:

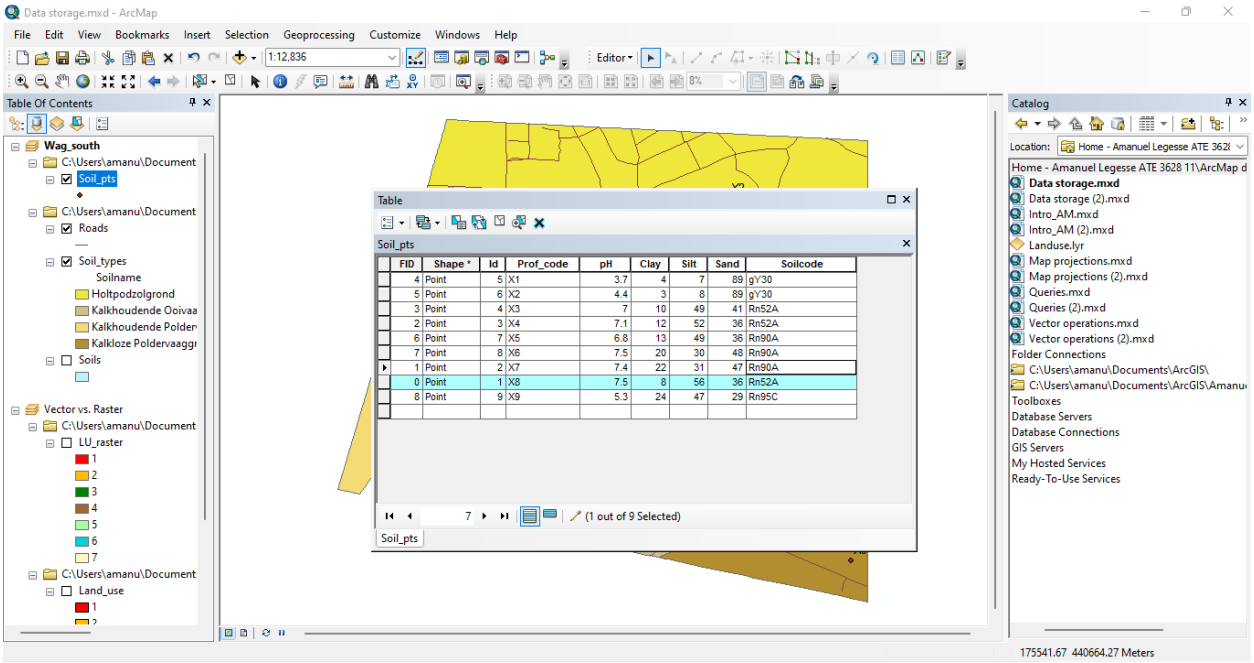

Data storage.mxd - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:12,836
Table Of Contents
Wag_south
Soil_pts
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Table
Soil_pts
FID Shape * Id Prof_code pH Clay Silt Sand Soilcode
4 Point 5 X1 3.7 4 7 89 gY30
5 Point 6 X2 4.4 3 8 89 gY30
3 Point 4 X3 7 10 49 41 Rn52A
2 Point 3 X4 7.1 12 52 36 Rn52A
6 Point 7 X5 6.8 13 49 36 Rn90A
7 Point 8 X6 7.5 20 30 48 Rn90A
1 Point 2 X7 7.4 22 31 47 Rn90A
0 Point 1 X8 7.5 8 56 36 Rn52A
8 Point 9 X9 5.3 24 47 29 Rn95C
(1 out of 9 Selected)
Catalog
Location: Home - Amanuel Legesse ATE 3628
Home - Amanuel Legesse ATE 3628 11\ArcMap d
Data storage.mxd
Data storage (2).mxd
Intro_AM.mxd
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Vector operations (2).mxd
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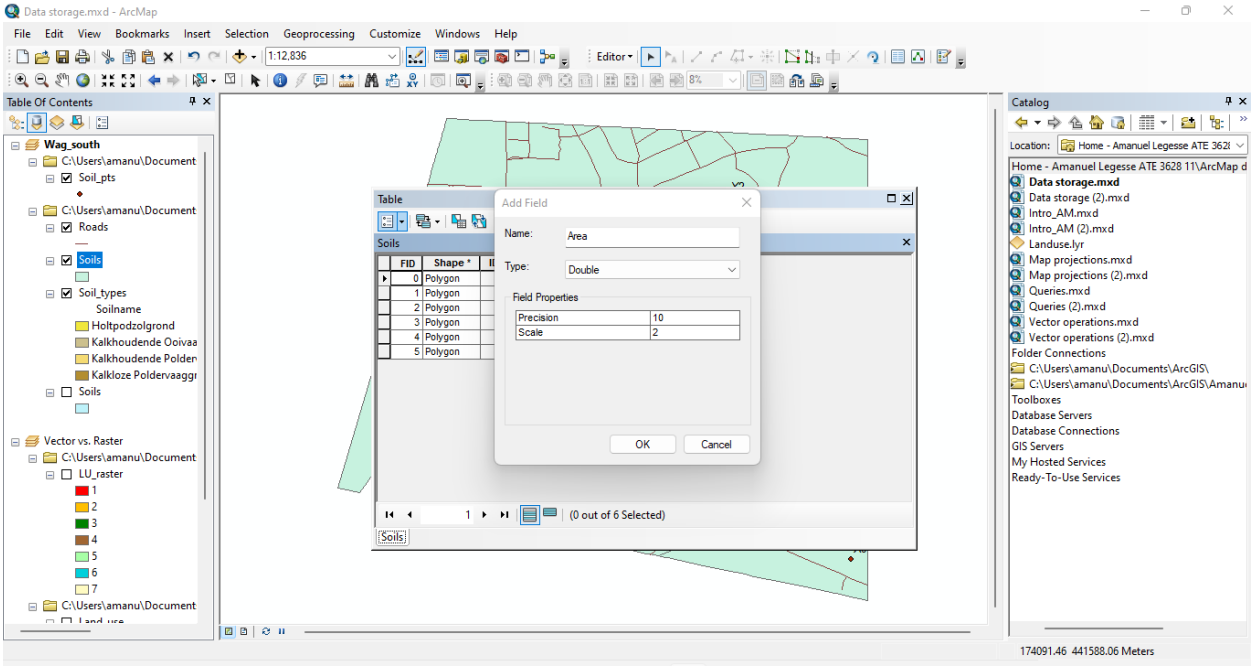
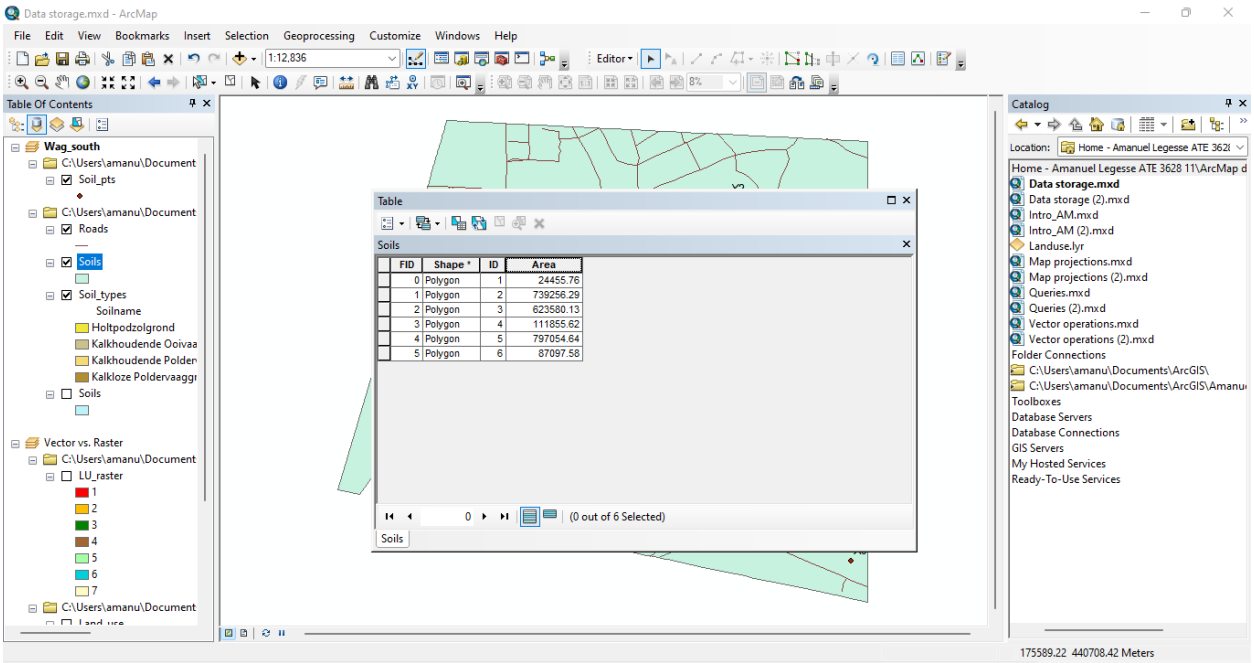
Database Servers
Database Connections
GIS Servers
My Hosted Services
Ready-To-Use Services
175541.67 440664.27 Meters

Calculating the area of polygon features

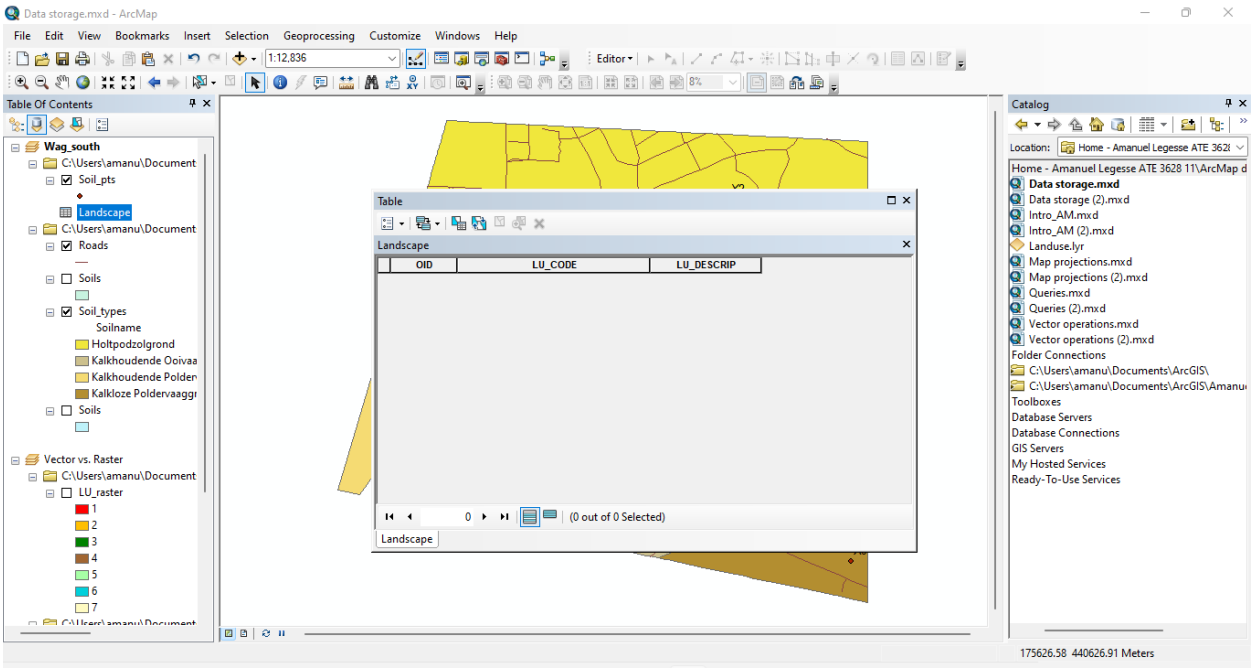
3.A:



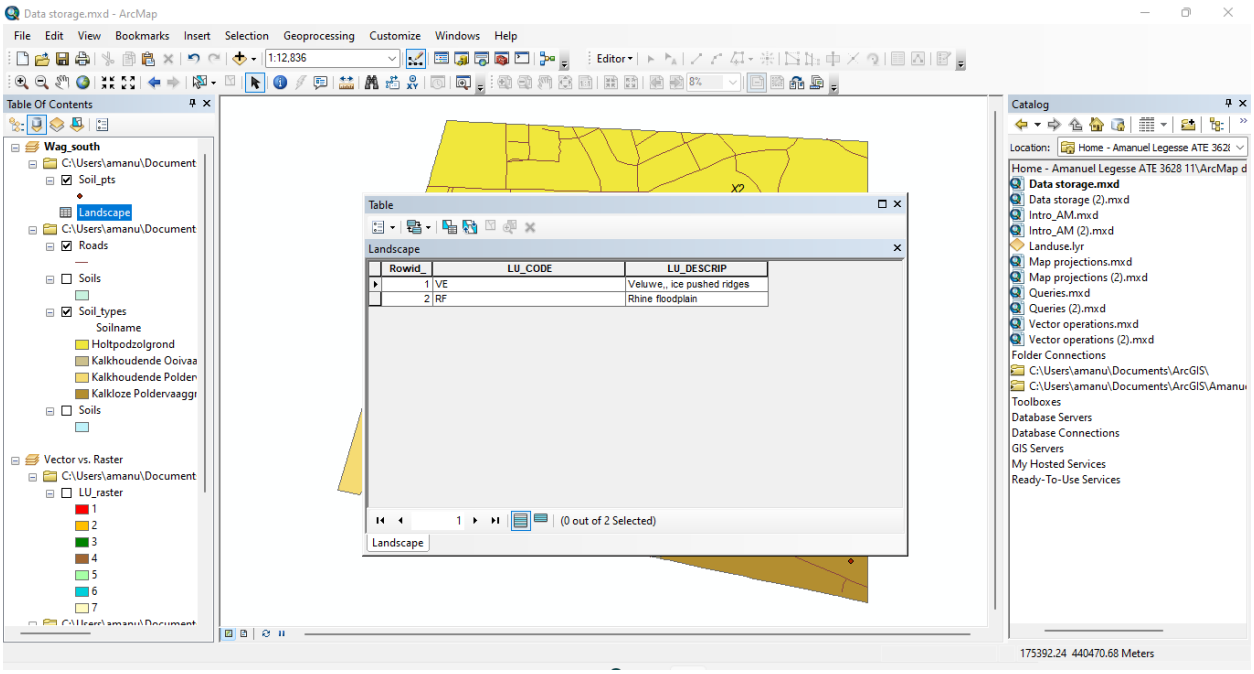


Creating a new table

4.A:

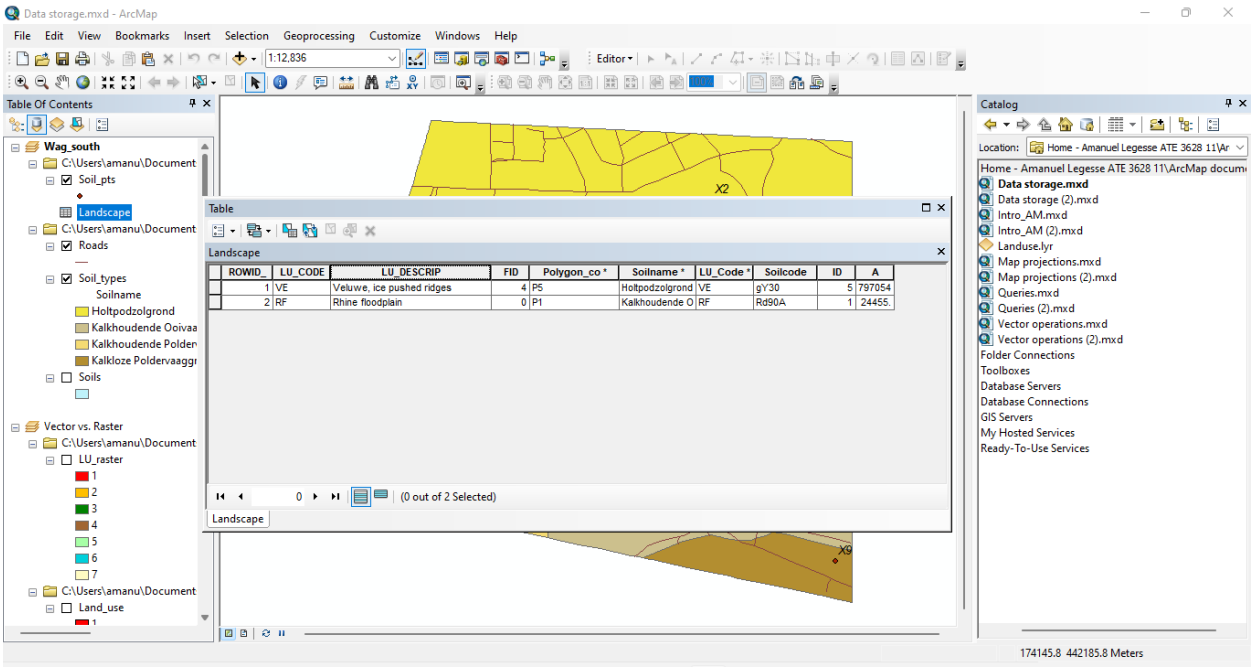


4.B:

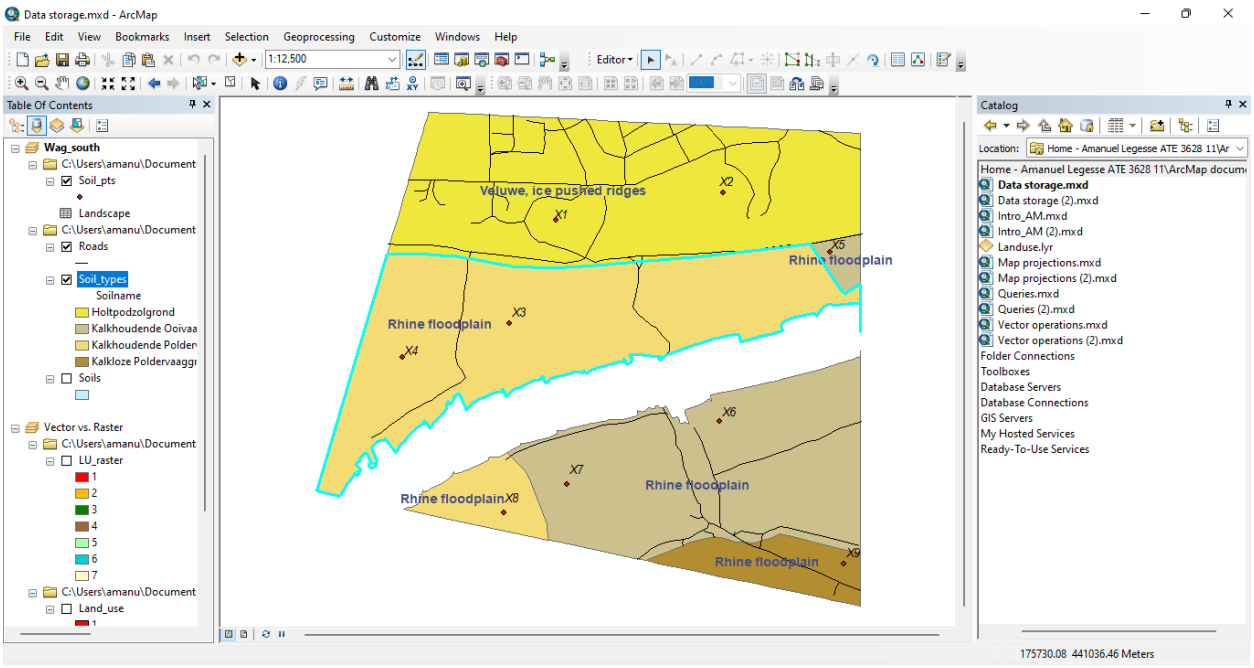


Joining tables

5.A:

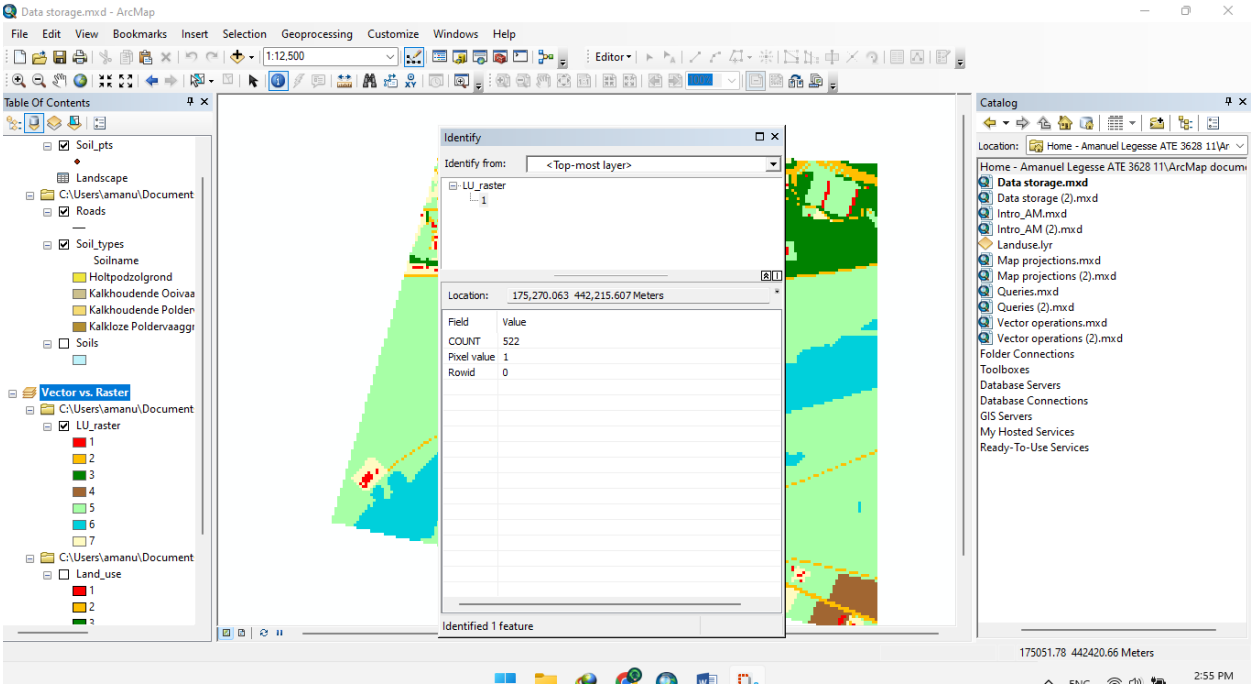


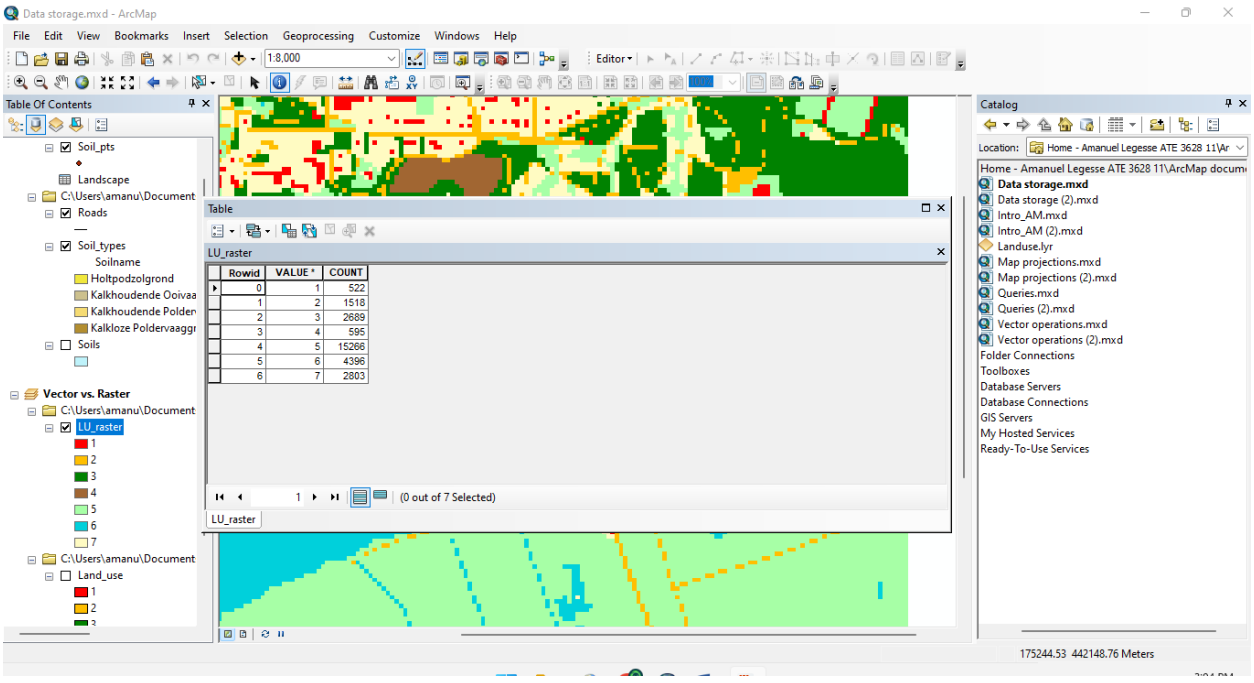
5.B



Data structure of a raster dataset

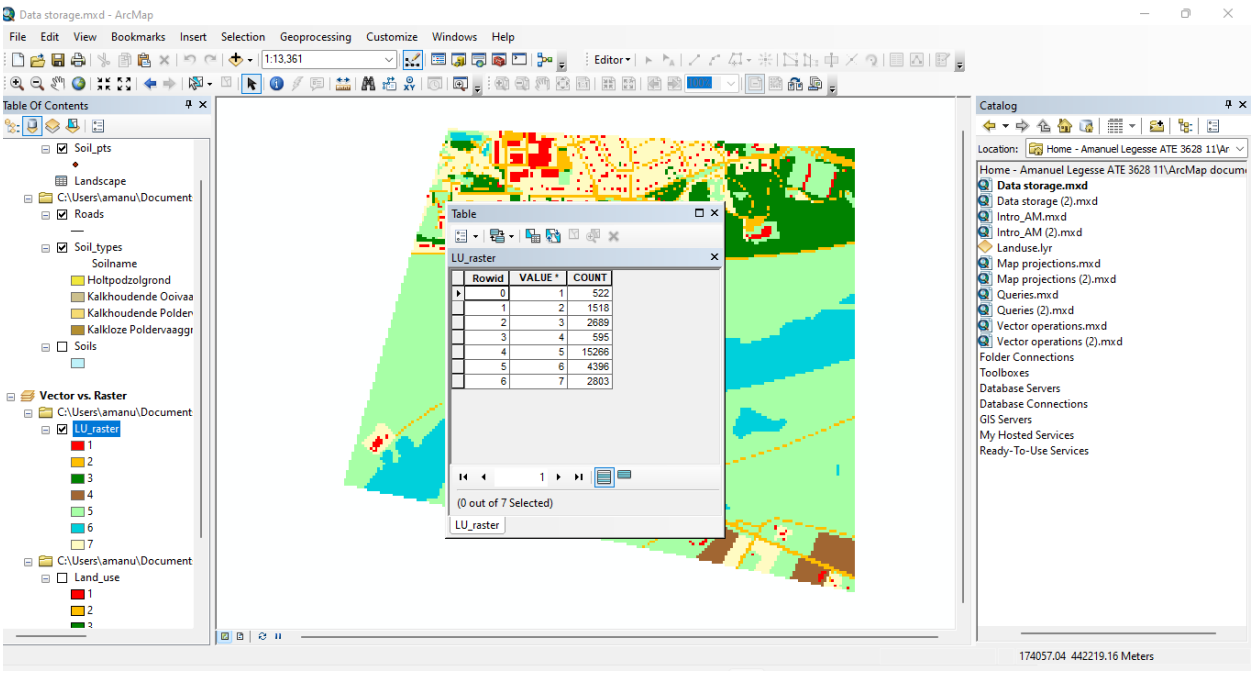
6.A: The raster attributes of 'LU_raster' are create out integer having an associated raster cell value attribute table.





6.B: ’ LU_raster’ is a discrete geographic features that have definable boundaries because it features lakes, lands, buildings, roads…

6.C: the attribute table of ‘LU_raster’ contains 7 values



Zone vs. region in raster

7. Zones because it represent all geographic objects with the same value and in the attribute table the values represent the zones.

8.

Lans_Use is a type of attribute with fields specifying the area, perimeter and shape of the land mainly focusing on just the lands where Land_raster specifies the values and counts of that raster.