**Geographical Information Systems**

**Assignment 2**

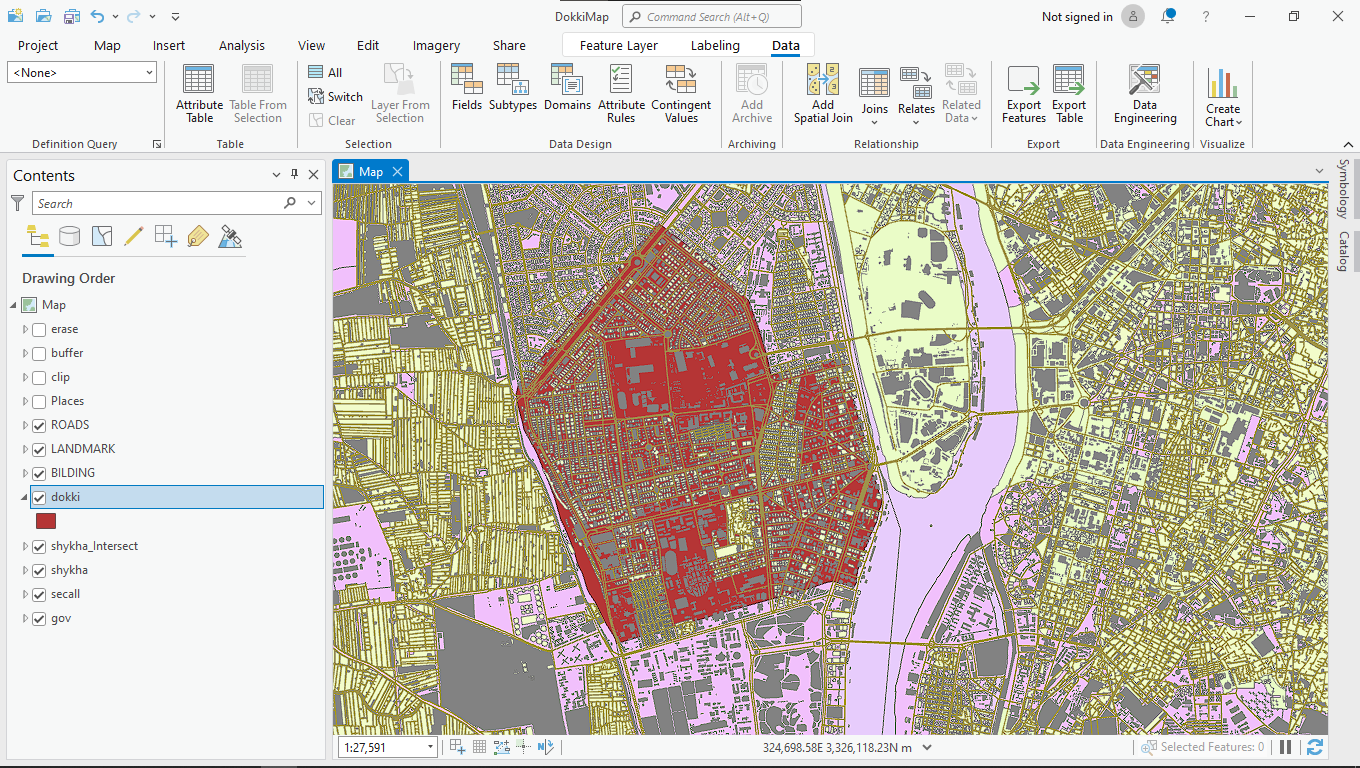
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**Steps:**

**Preparing data**

1. From the map we created last assignment we have Dokki Layer 
2. We will extract (schools – Hospitals – clubs ) using select feature tool using the queries :
3. From Landmarks select \* where A\_Name1 contains text ‘مستشفى’ A screenshot of a computer

   Description automatically generated

Right click on landmarks layer -> selection -> Make Layer from Selected Feature

1. From Landmarks select \* where A\_Name1 contains text ‘نادى ‘

Right click on landmarks layer -> selection -> Make Layer from Selected Feature

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5. From Landmarks select \* where A\_Name1 contains text ‘مدرسة ‘  
  
Right click on landmarks layer -> selection -> Make Layer from Selected Feature

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**Clipping Data on Dokki Layer**

1. From analysis tab we will use pairwise clip to clip Roads on Dokki Layer A screenshot of a computer

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2. Also, we will clip schools on Dokki Layer

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1. And we will clip Hospitals on Dokki Layer A screenshot of a computer

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2. And we will clip clubs on Dokki Layer A screenshot of a computer

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Now we have All layers we will use for our condition Clipped.

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**Buffering Layers**

1. For each layer we will make a buffer with the space in the assignment description

Roads will be buffered 50. A screenshot of a computer

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Hospitals and clubs will be buffered 500. A screenshot of a computer

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Description automatically generated

And Schools will be buffered with 1000. A screenshot of a computer

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**Erasing redundant parts from the layer**

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1. Using an erase tool, we will start erasing roads with club’s layer. A screenshot of a computer

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2. Also, we will erase the result from the previous step with hospitals.

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1. After that we will use the result and erase the result with schools

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1. With the final layer we will use the query to find shape area >= 500

We will find there is no land we can build on it A screenshot of a computer

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