

ArcIMS 3.0

Beta 2 – 6/16/99

Exercise 3—ArcIMS Viewer

Viewer is a standalone application for viewing an AXL file as a client. It includes functionality to pan and zoom, query, add data layers, select features, buffer selected features, edit attributes and spatial data through Markup, as well as post MapNotes.

1. Start the ArcIMS Viewer

- From the **Start** menu, select **Programs > ESRI > ARCIMS 3.0 > Viewer**

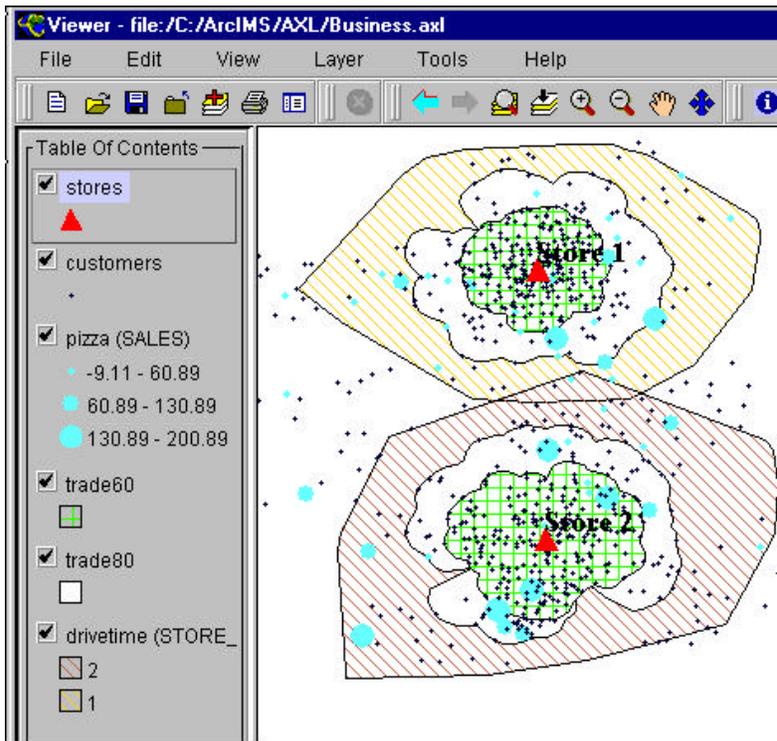
Viewer will appear after a few seconds

2. Open a project

- From the **File** menu, choose **Open Project**
- Browse to the **Business.AXL** file which you created earlier (this file should be located in c:\arcims\axl)
- Choose **OK**

3. Explore selection functionality

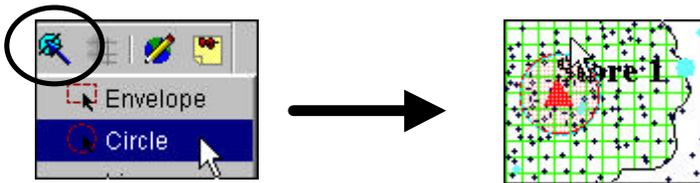
- Use the Pan and Zoom tools to create a view that resembles the map below



- In the Table of Content, click Stores to make it the active layer

Notice that when you have an active layer, a number of tools appear enabled on the tool bar.

- Click the **Select Features** tool and choose the **Circle** option
- Click and drag a circle to select Store1



Store 1 should appear highlighted.

- Click the **Select Features** tool and choose the **Display rows** option

What is the address of Store 1? _____

- Close the Selected Rows window

4. Investigate the Buffer Tool

- Click the **Buffer Tool** button and choose the **Parameters** option



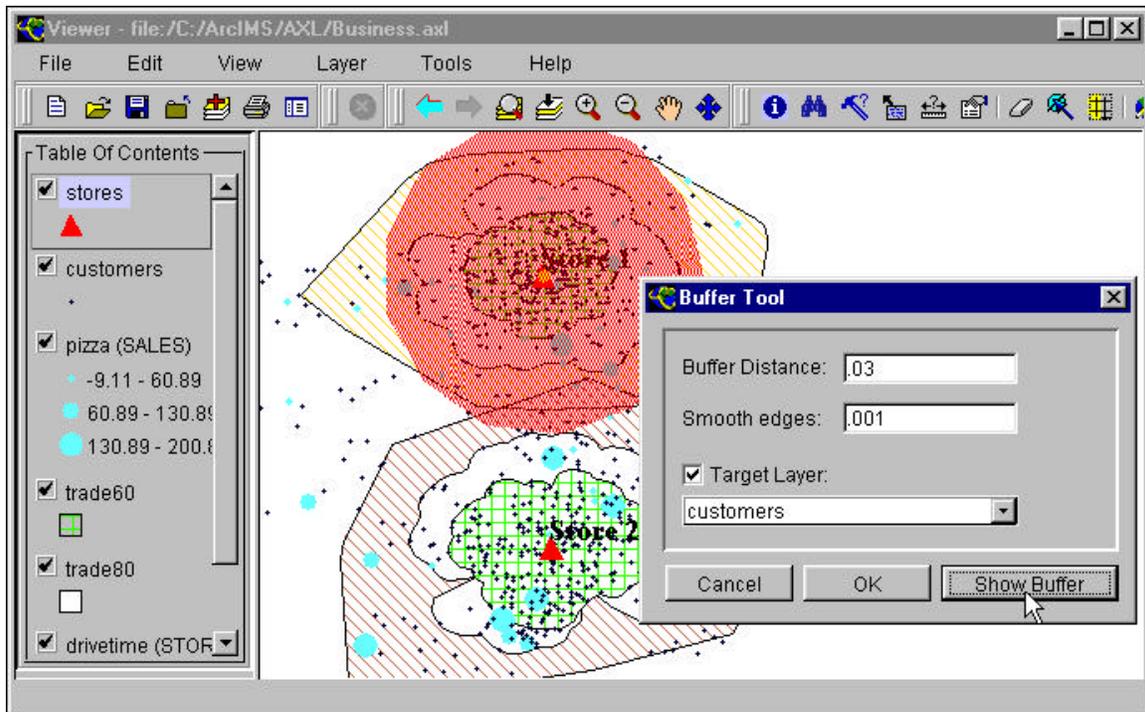
The Buffer tool at Beta 2 works only on map units. Because the layers of our map are in latitude / longitude, the units must be specified in degrees. Generally, it wouldn't be very useful to specify a buffer distance in degrees, however, for purposes of learning, degrees will suffice.

- For Buffer Distance, enter .03
- For Smooth edges, enter 0.001
- Check the Target Layer check box and choose **customers** from the dropdown box

The target layer is the layer whose features will become part of the selected set if they are within the envelope of the buffer.

- Click **Show Buffer**

A buffered area should appear around Store1



- Click **OK**
- From the **Buffer Tool** button, choose the **Display rows** option

How many customer live within .03 degrees of Store 1? _____

- Close the Selected rows menu
- Click the **Clear selection** button 

5. Investigate the Identify, Find, and Query Builder

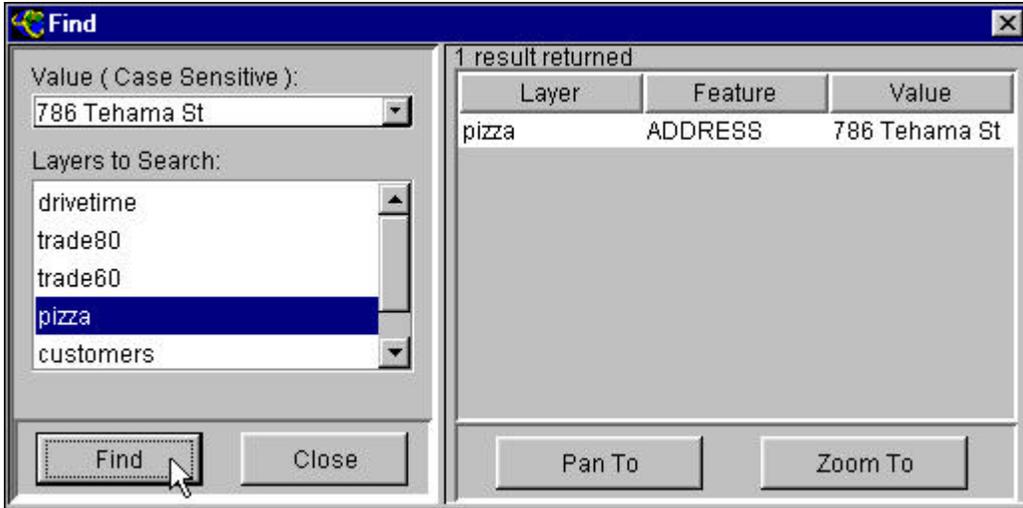
- Make Pizza the active layer by clicking on it in the Table of Contents
- Click the **Identify** button 

- Click on any pizza store on the map

What are the sales figures for the selected store? _____

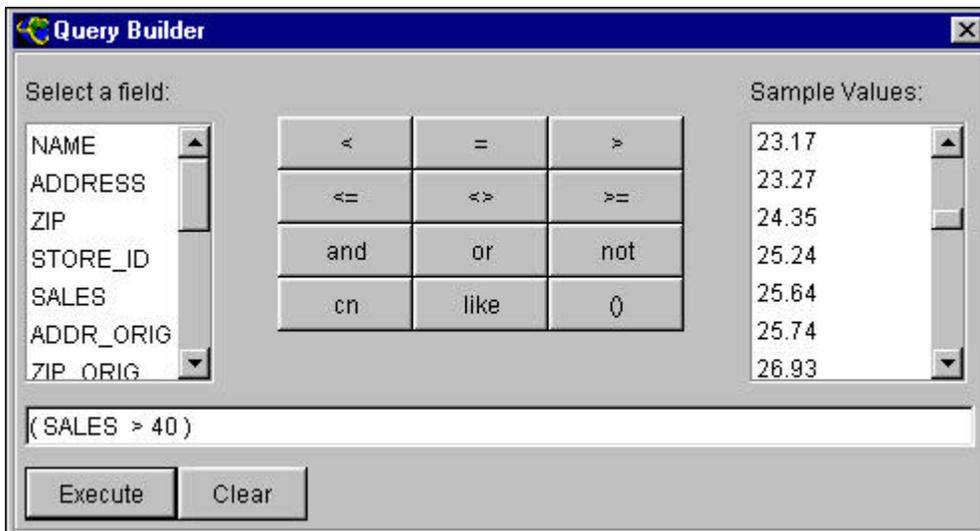
- Close the Identify results window
- Click the **Find** button 

- For Layers to Search, select **pizza**
- For Value type **786 Tehama St** (note this is case sensitive)
- Click **Find**



You should notice that one of the pizza stores is now highlighted

- Close the Find menu
- Click the **Query Builder** button 
- From the Select a field dropdown box, double click **Sales**
- Select  from the operator button
- In the text input box, finish the expression by typing **40** such that your expression reads (SALES > 40) as shown below



- Click **Execute**

If you didn't have any errors in your logical expression, you should have 24 selected elements in the selected set of features. If you made an error, click Clear and retype the expression.

- Click **Statistics**
- On the Select a field to get statistics menu, choose **Sales**
- Click **OK**

Statistics provides simple statistics for all features—not just those in the selected set.

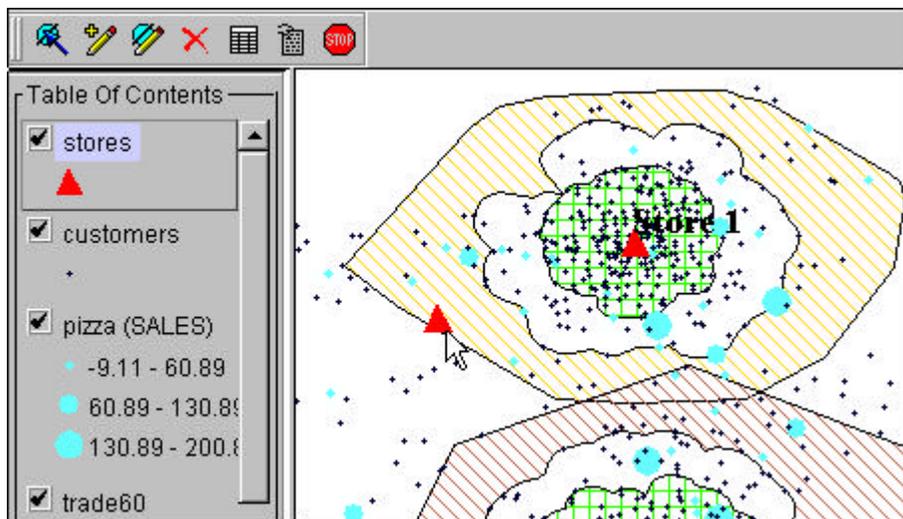
How many Pizza stores are there? _____
What are the average sales for each Pizza store? _____

- Close the Query builder

6. Add a new store

In this step, you will investigate the Markup tool. Markup allows clients to add features and modify attributes. Unlike actually editing a layer in Arcedit or Arcview, Markup does not add topological features or change the existing attribute tables. Instead, changes are "posted", and presumably reviewed by a data administrator before being incorporated into the original data. This added layer of security assures that data will not be corrupted by the viewing client.

- Make stores the active layer
- Click the **Markup Tool** on the toolbar 
- Click the **Select Features** button on the new toolbar which appears
- Click and drag a box to select Store 1
- Click the **Attributes** button
- Examine the attributes and then close the Attributes menu
- Click the **Add features button**
- Click anywhere on the map to add a third store



- Select the new store by using the Select features button as before

- Click the **Attributes** button
- Change the Name of the store to **Devon's Market** – make sure to hit Enter after typing in the value



- Close the Attributes menu
- Click the **Modify Features** button
- Click and hold the left mouse button to move the newly added store to any location of your choice

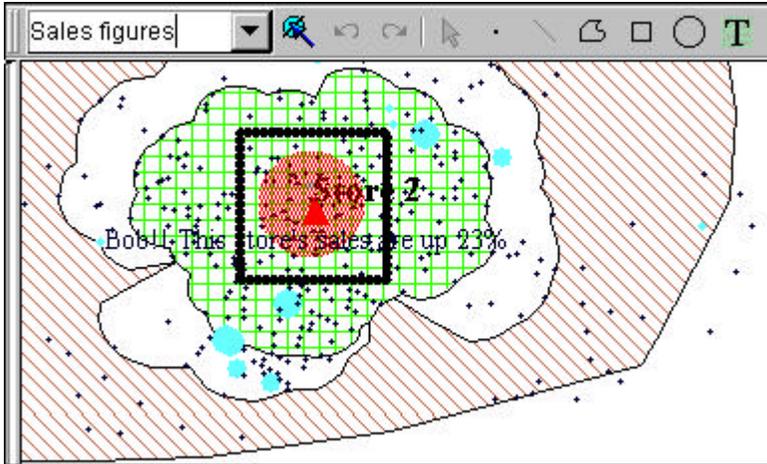
After submitting the session (not implemented at Beta 2), your updates can be checked, verified, and QC'd (quality control) by an administrator prior to updating of the actual data.

- Click **Stop** 

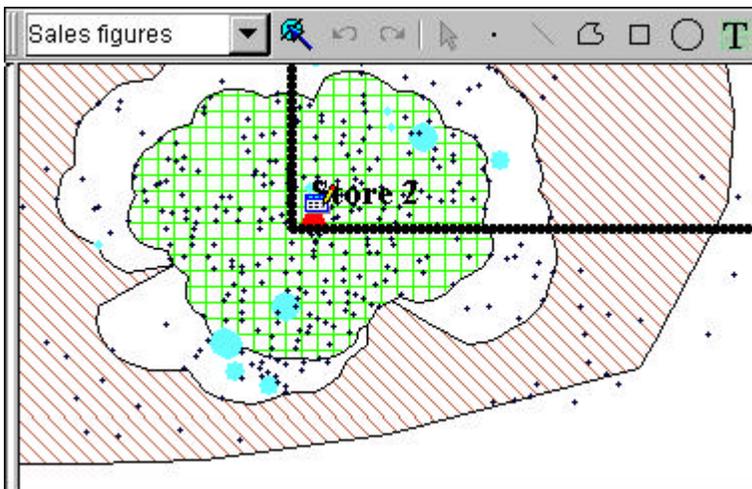
7. Investigate MapNotes

Map notes is a utility which allows for collaborative sharing of information between two sources. Think of Map notes as adding sticky notes to a map that reference a location and provide information to an interested colleague.

- Click the **MapNotes Tool** on the toolbar
- On the new toolbar which appears, click **New MapNotes Layer**
- In the dropdown box, type **Sales Figures**
- Click **Add Circle** 
- Click and drag a circle around Store 2
- Click **Add Text** 
- Type **Bob!! This store's sales are up 23%**
- Click **OK**
- Click below Store 2 to add the text to the note
- Add another note if you wish.



- Right click on the MapNote and select **Minimize**



After submitting a MapNote (not implemented at Beta 2), your notes are saved in the middleware, and can be connected to and seen from other sources by specifying the correct URL.

- Click **Stop**

Viewer also allows you to add data layers from local or remote sources and then save a new .AXL, or overwrite the existing file.

- From the class data directory, add the highways layer to your map 
- From the File menu choose **Save As**
- Name the new file Business2.axl
- Close Viewer
- Open Business2.axl in a text editor and note where the new layer is added

You have completed exercise 3