

# Combining Address Fields

Open **ArcMap** in a Citrix connection. Click on **Existing Maps> Browse for more...** and navigate to **M:\Production\lojic\resources** and click on **beginner.mxd**.

Log into the Oracle Database when the Spatial Database Connection window appears. Remember, only complete the User Name and Password form fields. Keep the Database form field **blank**.

In the **File** Menu, **Save As**  
**H:\CitrixTraining\exercises\combine.mxd**

Use [Lesson 3 – Managing and Accessing Your Personal Data](#) to download the exercise data and setup a training directory.

## Add and Combine Fields in a .dbf table

Click on the **Add Data** button, go to **H:\CitrixTraining\exercises\Lesson 6\Adult Day Care Centers.dbf** and **add it to combine.mxd**.  Click on the **List by Source** button at the top of the **Table of Contents** to view the table. Scrolling down the theme list may be required to view the table. **Right click** on the table and **Open** it. The table should look similar to Figure 1.

Figure 1 - Adult Day Care Centers.dbf in ArcMap.



| OID | NAME                              | HOUSE_NUMB | STREET_DIR | STREET_NAM   | STREET_TYP |
|-----|-----------------------------------|------------|------------|--------------|------------|
| 0   | Almost Family - Hikes Point       | 3403       |            | Breckenridge | Ln         |
| 1   | Almost Family - Third Street      | 4028       | S          | Third        | St         |
| 2   | Christian Homes of Kentucky       | 920        | S          | 4th          | St         |
| 3   | The Coriathian                    | 1702       |            | Gardiner     | Ln         |
| 4   | Daybreak Adult Center             | 2120       |            | Payne        | St         |
| 5   | ETA Day Center                    | 724        | S          | 44th         | St         |
| 6   | Fern Creek/ Highview United Minis | 7502       |            | Tangelo      | Dr         |
| 7   | God's Day Care                    | 1110       | S          | Preston      | St         |
| 8   | Highlands Community Ministries    | 2000       |            | Douglass     | Blvd       |
| 9   | Hurstbourne Care Centre           | 2200       |            | Stony Brook  | Dr         |
| 10  | Kaleidoscope                      | 10634      |            | Watterson    | Tr         |

Notice that some field name are truncated and underscores are used as spaces. This occurs to field names over 10 characters and field names containing spaces when converting an excel file (.xls) to a dbase file. (.dbf)

Figure 2 - Add Field window.



**Add Field**

Name:

Type:

Field Properties

Length:

OK Cancel

To add a new field that will contain the combined address, click on the **Table Options** button and select the **Add Field** button. In the **Add Field** window (Figure 2), type in **Address** in the Name field and select **Text** from the pulldown menu in the Type field. **Click OK**. A new field called **Address** should be added to the dbf file. (Figure 3)



| OID | NAME                              | HOUSE_NUMB | STREET_DIR | STREET_NAM   | STREET_TYP | Address |
|-----|-----------------------------------|------------|------------|--------------|------------|---------|
| 0   | Almost Family - Hikes Point       | 3403       |            | Breckenridge | Ln         |         |
| 1   | Almost Family - Third Street      | 4028       | S          | Third        | St         |         |
| 2   | Christian Homes of Kentucky       | 920        | S          | 4th          | St         |         |
| 3   | The Coriathian                    | 1702       |            | Gardiner     | Ln         |         |
| 4   | Daybreak Adult Center             | 2120       |            | Payne        | St         |         |
| 5   | ETA Day Center                    | 724        | S          | 44th         | St         |         |
| 6   | Fern Creek/ Highview United Minis | 7502       |            | Tangelo      | Dr         |         |
| 7   | God's Day Care                    | 1110       | S          | Preston      | St         |         |
| 8   | Highlands Community Ministries    | 2000       |            | Douglass     | Blvd       |         |
| 9   | Hurstbourne Care Centre           | 2200       |            | Stony Brook  | Dr         |         |
| 10  | Kaleidoscope                      | 10634      |            | Watterson    | Tr         |         |

Figure 3 - Address field.

**Right click** on the Address field and select **Field Calculator**. Click the **Yes** button if the message window that pops up. **Field Calculator** window will appear. (Figure 4) **It is important that the next steps are followed carefully.** Figure 5 shows the first part of the combining expression.

- **Double Click** HOUSE\_NUMB
- **Type:&" "&**
- **Double Click** STREET\_DIR
- **Type:&" "&**
- **Double Click** STREET\_NAM
- **Type:&" "&**
- **Double Click** STREET\_TYP
- **Click OK.**

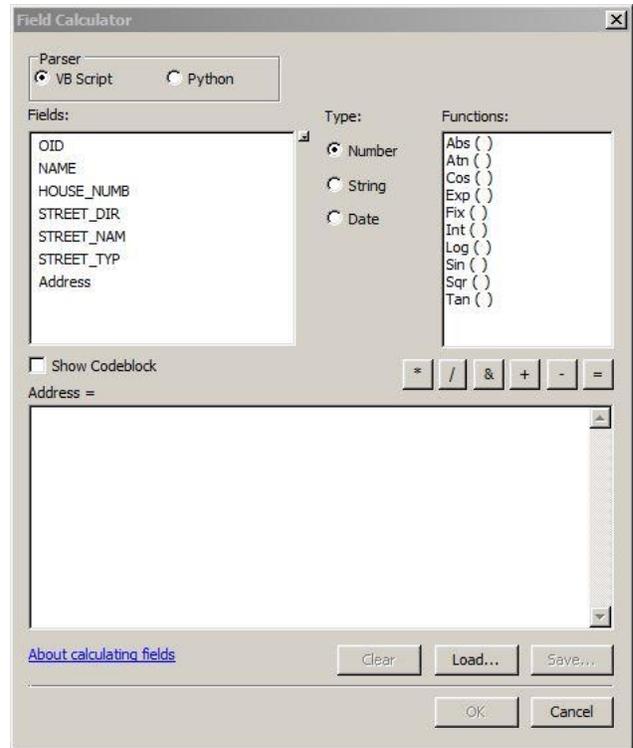
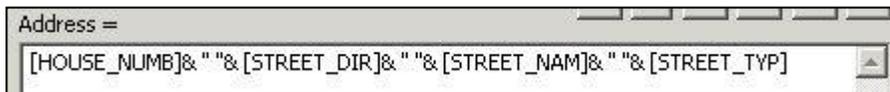


Figure 4 - Field Calculator window.

Figure 5 - Closeup of the combining expression.



The combined Address field should look like Figure 6.

**Save** the map document.

| Address              |
|----------------------|
| 3403 Breckenridge Ln |
| 4028 S Third St      |
| 920 S 4th St         |
| 1702 Gardiner Ln     |
| 2120 Payne St        |
| 724 S 44th St        |
| 7502 Tangelo Dr      |
| 1110 S Preston St    |
| 2000 Douglass Blvd   |
| 2200 Stony Brook Dr  |
| 10634 Watterson Tr   |

Figure 6 - Combined Address field.

## Add and Combine (Concatenate) Fields in an excel table

Adding and combining fields in an excel table must be done on your local network where the Excel software is available. **Excel tables cannot be edited in ArcGIS. They are read only in ArcGIS.**

Open **ArcCatalog** and go to the **H:\CitrixTraining\exercises\Lesson 6** directory copy the **Theaters.xls** file to your **V:\mygisfiles** directory.

Open **Excel** on your local network and go to **C:\mygisfiles** and open **Theaters.xls**. (See Figure 7)

| 1                              | 2              | 3           | 4               | 5                | 6          | 7          | 8     | 9 | 10 | 11 |
|--------------------------------|----------------|-------------|-----------------|------------------|------------|------------|-------|---|----|----|
| Name                           | Phone          | HouseNumber | StreetDirection | StreetName       | StreetType | City       | State |   |    |    |
| Actors Theatre Of Louisville   | (502) 561-3344 | 316         | W               | Main             | St         | Louisville | KY    |   |    |    |
| Baxter Avenue Theatres         | (502) 459-2288 | 1250        |                 | Bardstown        | Rd         | Louisville | KY    |   |    |    |
| Belknap Theatre-University     | (502) 852-6814 | 2314        | S               | Floyd            | St         | Louisville | KY    |   |    |    |
| Belknap Theatre-University     | (502) 852-6814 | 2301        | S               | 3rd              | St         | Louisville | KY    |   |    |    |
| Blue Apple Players Inc         | (502) 587-7990 | 625         | E               | Market           | St         | Louisville | KY    |   |    |    |
| Broadway Series                | (502) 992-1250 | 611         | W               | Main             | St         | Louisville | KY    |   |    |    |
| Bunbury Theatre                | (502) 585-5306 | 112         | S               | 7th              | St         | Louisville | KY    |   |    |    |
| Children's Theatre             | (502) 625-0660 | 501         | W               | Main             | St         | Louisville | KY    |   |    |    |
| Cinema Deluxe At Preston Xings | (502) 499-6656 | 9700        |                 | Preston Crossing | Blvd       | Louisville | KY    |   |    |    |
| Cinemark Tinseltown USA        | (502) 326-0088 | 4400        |                 | Towne Center     | Dr         | Louisville | KY    |   |    |    |
| Corn Island Storytelling Fstvl | (502) 245-0643 | 651         | S               | 4th              | St         | Louisville | KY    |   |    |    |
| Dixie Dozen Theatres           | (502) 935-3771 | 6801        |                 | Dixie            | Hwy        | Louisville | KY    |   |    |    |
| Dreams With Wings-Dream Bldrs  | (502) 238-4820 | 1838        |                 | Bardstown        | Rd         | Louisville | KY    |   |    |    |
| Imax Theatre                   | (502) 561-6100 | 727         | W               | Main             | St         | Louisville | KY    |   |    |    |
| Iroquois Amphitheater          | (502) 368-5865 | 1080        |                 | Amphitheater     | Rd         | Louisville | KY    |   |    |    |
| Kentucky Shakespeare Festival  | (502) 637-4933 | 1387        | S               | 4th              | St         | Louisville | KY    |   |    |    |
| Kenwood Drive In Theatre       | (502) 368-6454 | 9700        |                 | Preston Crossing | Blvd       | Louisville | KY    |   |    |    |
| Louisville Dinner Theater      | (502) 645-8227 | 911         | S               | Brook            | St         | Louisville | KY    |   |    |    |

Figure 7 - Theaters Excel file.

Add the word “**Address**” to the top of column 9. (Figure 8)

Click on the **first cell below** the “Address” cell and click on the **Insert Function** button in the Formula Bar. (Figure 9)

|        | 8     | 9       | 10 |
|--------|-------|---------|----|
|        | State | Address |    |
| sville | KY    |         |    |

Figure 8 - Add Address.

| 1                            | 2              | 3       |
|------------------------------|----------------|---------|
| Name                         | Phone          | HouseNu |
| Actors Theatre Of Louisville | (502) 561-3344 |         |
| Baxter Avenue Theatres       | (502) 459-2288 |         |
| Belknap Theatre-University   | (502) 852-6814 |         |

Figure 9 - Click on Insert Function button.

To create a function, scroll down and select the **Concatenate** function from the list. (Figure 10)

Build the formula:

**Text1** – select the HouseNumber cell in the same row at the cell under the Address column.

**Text2** – Type in “ ” to place a space

**Text3** - select the StreetDirection cell in the same row at the cell under the Address column.

**Text4** – Type in “ ” to place a space

**Text5** - select the StreetName cell in the same row at the cell under the Address column.

**Text6** – Type in “ ” to place a space

**Text7** - select the StreetType cell in the same row at the cell under the Address column.

Figure 11 shows how the arguments should look while it is being created. Notice the Formula results. It should read **316 W Main St**. Click the **OK** button if the address looks correct.

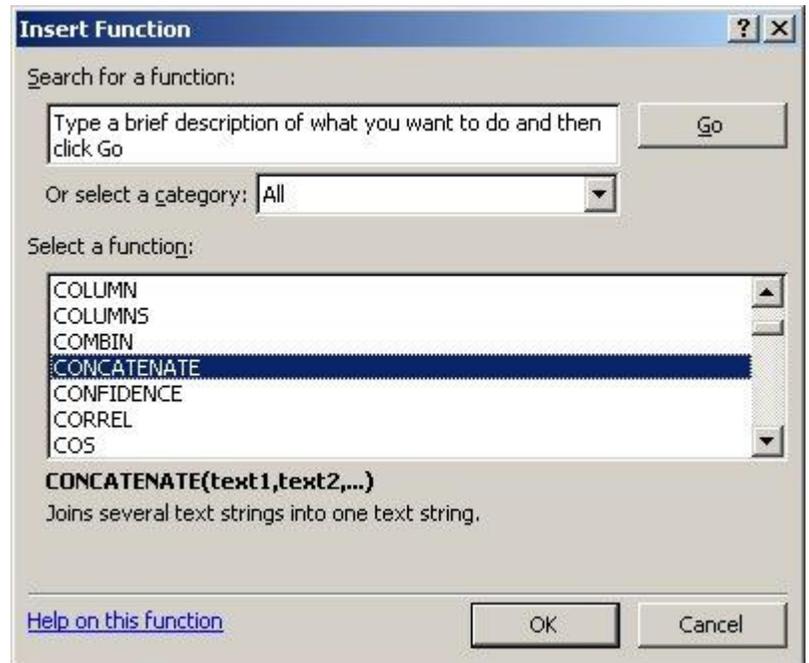


Figure 10 - Select the Concatenate function .

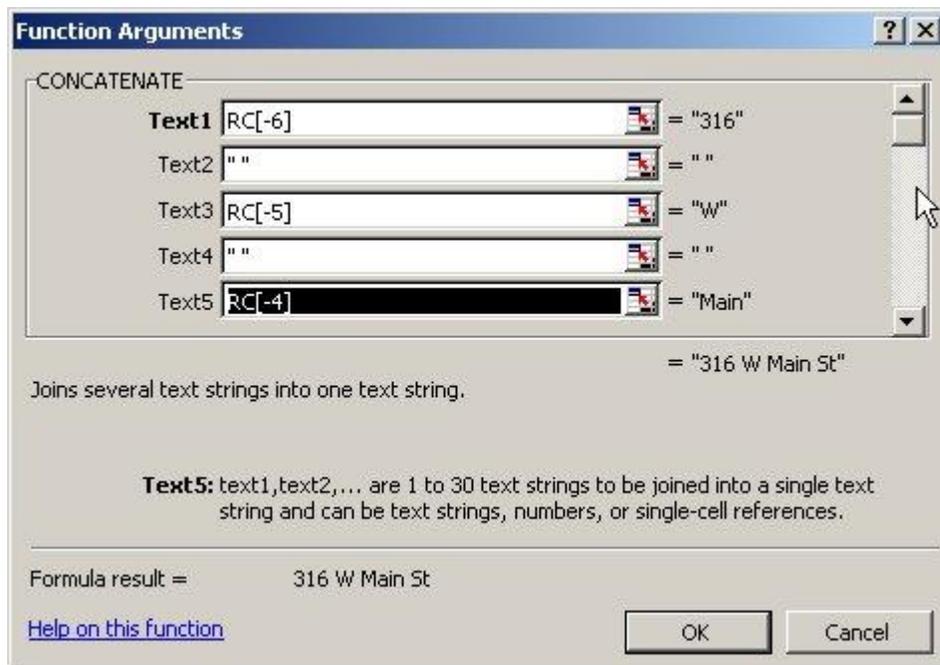


Figure 11 - The Concatenate Function Arguments button.

Select the cell under the Address column that reads **316 W Main St** and drag the cursor down the column to populate the rest of the cells in that column. (Figure 12)

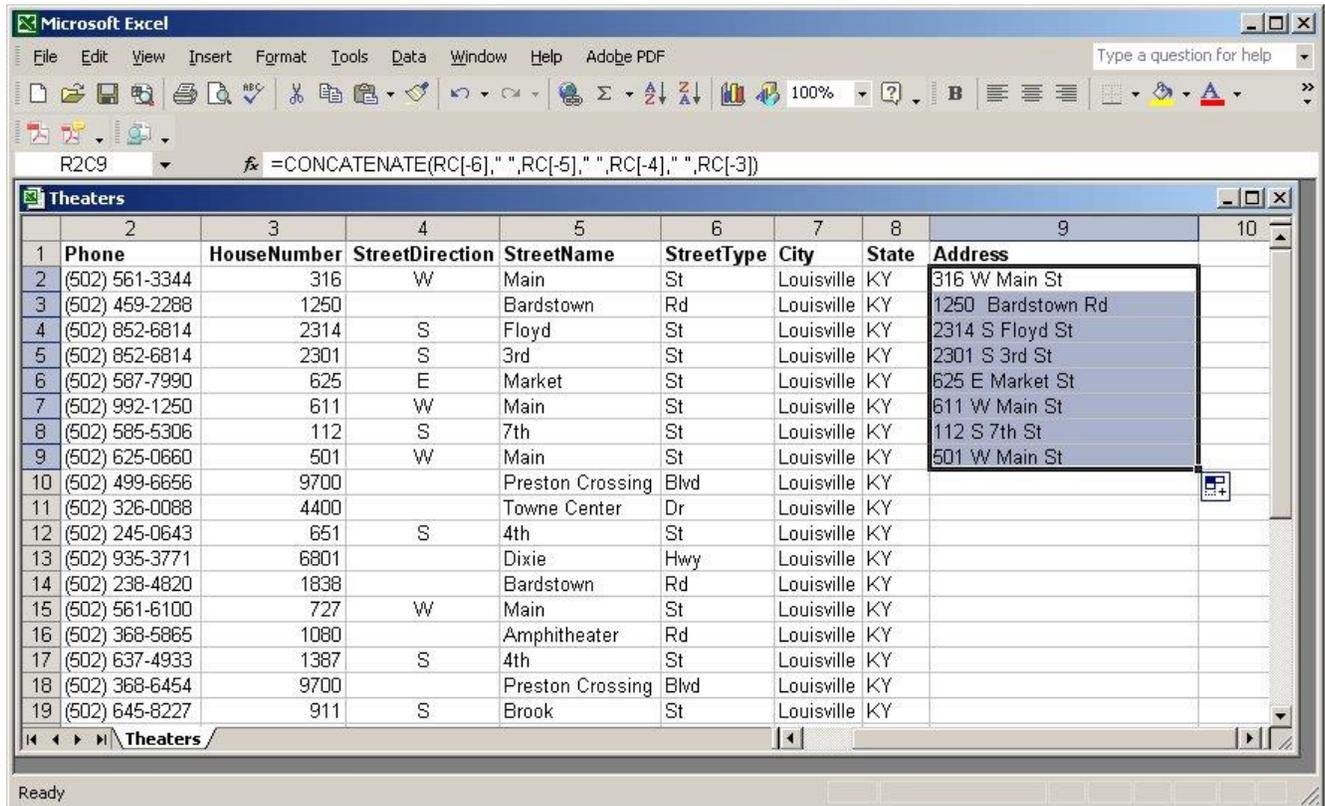


Figure 12 - Drag and populate the Address column.

Save the excel file with the Address field populate as **C:\mygisfile\TheatersAddress.xls**. In **ArcCatalog**, copy it from **V:\mygisfiles** to **H:\CitrixTraining\exercises\**. It now can be added to an .mxd for geocoding.

If you have extra time, add the TheatersAddress.xls to the combine.mxd and geocode it.

Save the combine.mxd.