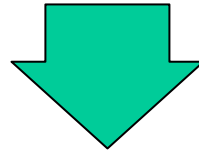


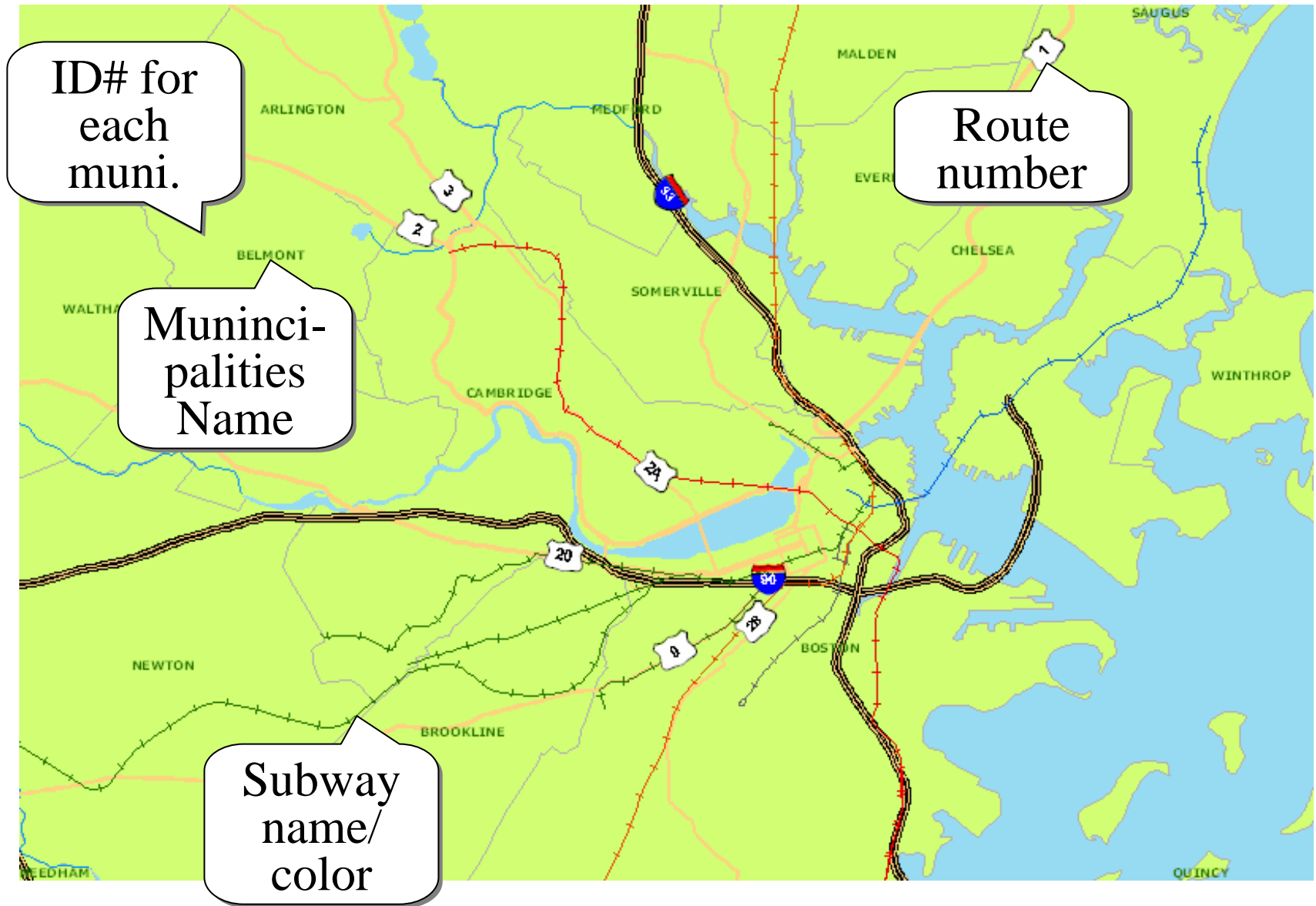
Today's theme: Join (Import data file into ArcMap)

Why do you need to import external data file into GIS software?

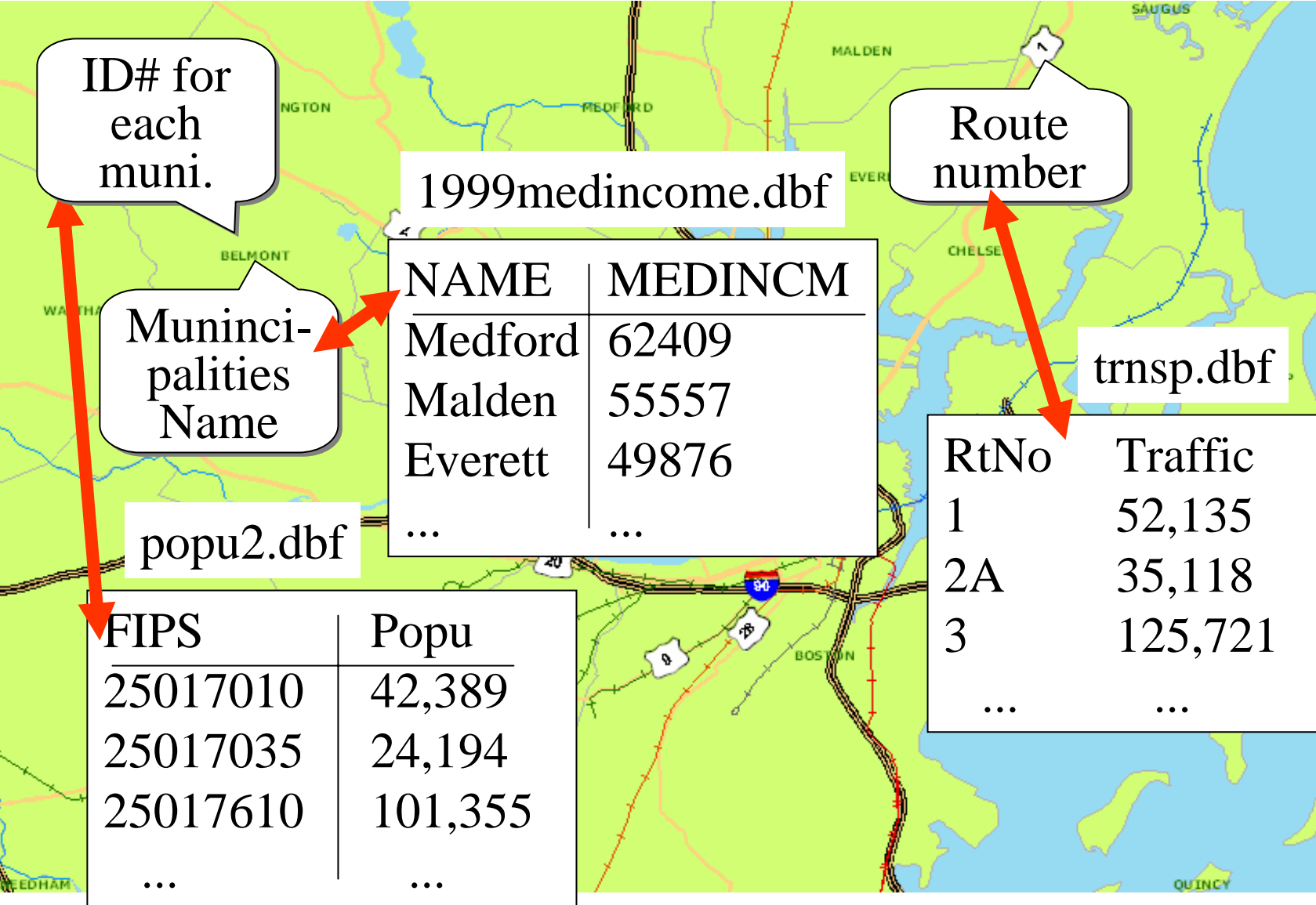


- Map files have only geographic information, not other meaningful information, such as income, population, household size... etc.
- In order to create thematic maps and analyze them, you need to **import** those data into GIS.

Each geographic feature have an unique identifier.

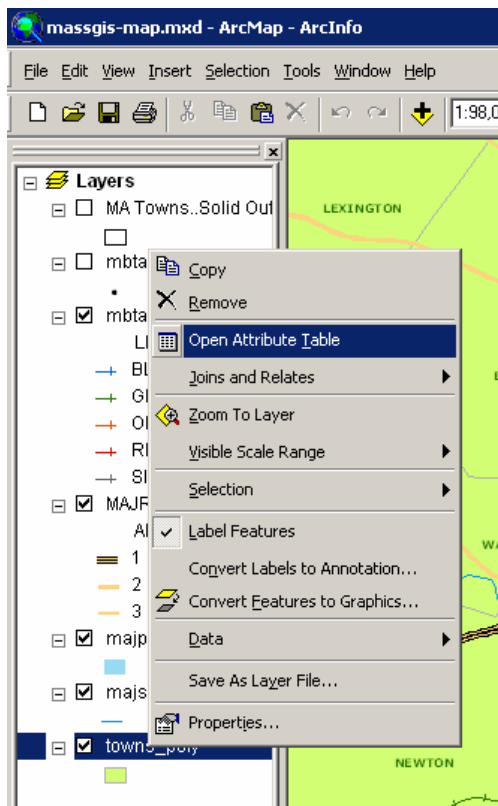


You can import an **external data/file** into GIS using an unique identifier as a key for association.

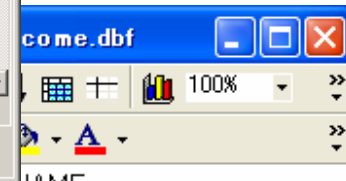


Finding an unique matching identifier...

On ArcMap (GIS): See “Attribute Table”



FID	Shape	TOWNS_ID	TOWN_ID	TOWN	FIPS_STCD	CCD_MCD	FID
7	Polygon	38	38	BOXFORD	25009	020	074
208	Polygon	585	40	BRAINTREE	25021	015	06C
270	Polygon	427	42	BRIDGEWATER	25023	010	08C
240	Polygon	382	44	BROCKTON	25023	540	09C
153	Polygon	255	46	BROOKLINE	25021	020	091
86	Polygon	155	48	BURLINGTON	25017	050	09E
137	Polygon	227	49	CAMBRIDGE	25017	610	11C
212	Polygon	338	50	CANTON	25021	025	113
77	Polygon	142	51	CARLISLE	25017	060	11E
276	Polygon	434	52	CARVER	25023	020	11E
44	Polygon	87	56	CHELMSFORD	25017	065	131
132	Polygon	222	57	CHELSEA	25025	700	132
191	Polygon	307	65	COHASSET	25021	030	14E

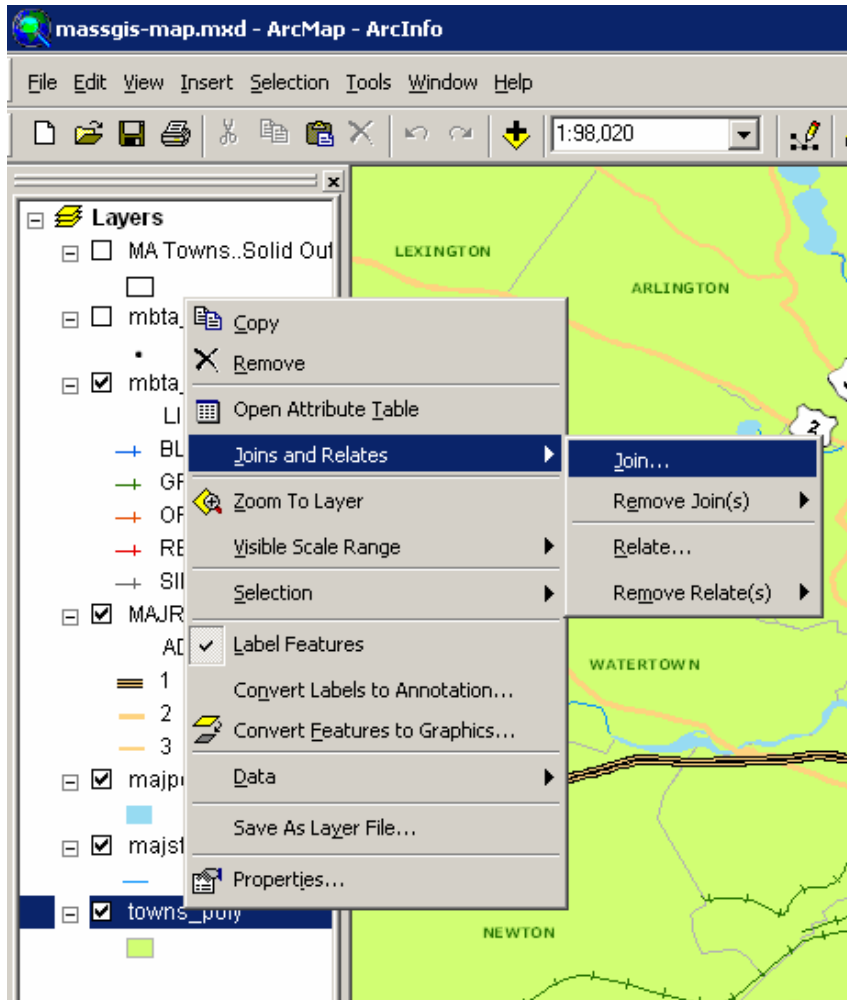


On the raw data side...
use Excel or Access

In this case, join by:
TOWN (ArcMap)
and NAME (.dbf)

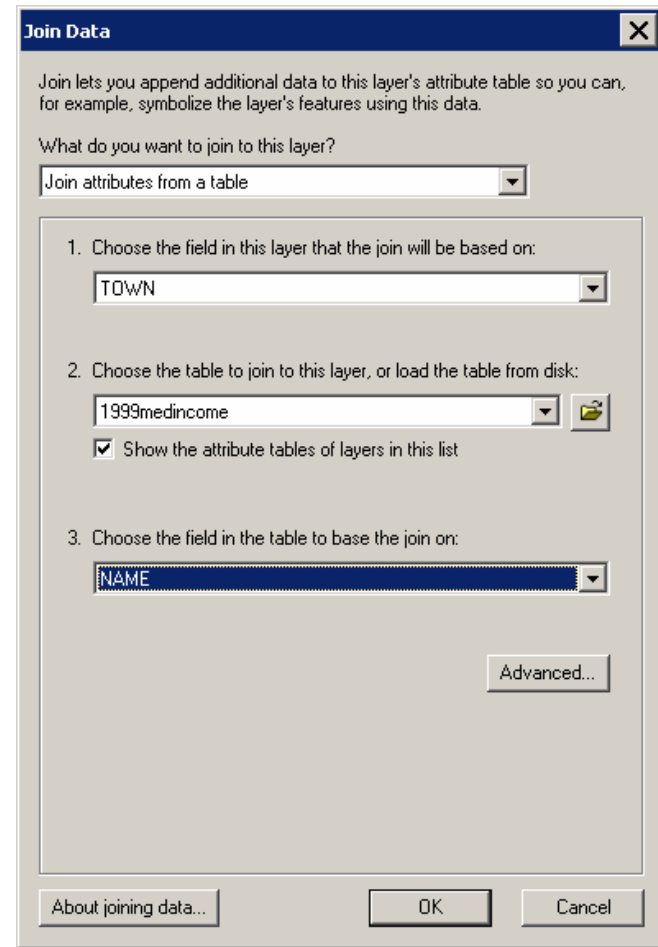
Be sure to remember the field names.
They can be different for GIS and the data

How to import...: JOIN



In this case, join by:
TOWN (ArcMap)
and NAME (.dbf)

Different field names can be used
in different files, even if they
contain a same set of identifiers!



After you join (import) the data, you can create thematic maps based on the external data.

