Joining CHASS Data To MapInfo Cartographic Files

1.	**Getting Geographic Data**

1. *Download* the self-extracting **MapInfo Format Digital Cartographic File for the Census Tract Level**, available from the **Data Library: Census 1996 Spatial Data Files** webpage. For **Toronto CMA**, this file is **gct_535b.exe**, *located* at the address below. *Save* this file to **C:\Temp\gct_535b.exe**.

http://www.chass.utoronto.ca/datalib/cc96/georef96.htm#cma

2. *Extract* the **spatial data file** by *double-clicking* the file (**gct_535b.exe**). Once the **DOS-Window** states **Finish - gct_535b** on the top, you can *close* the window.

B.	**Get Attribute Census 1996 Data**

1. You may *download* the data from **CHASS Canadian 1996 Profile Census Tract Level** located at the site listed below:

http://datacentre.chass.utoronto.ca/census/96_ct.html

2(a). *Select* the **Census Metropolitan Area** = **Toronto**

2(b) **Do you want the data categories to be listed as** = **Columns**

2(c) **Select the Data Category**: *Use* the **Ctrl** or **Shift** keys for multi select. Always be sure to *select* **CTName** as one of the **data categories** because this field is used to link to the spatial data.

2(d) **Select the output format** = **Text**

2(e) **Submit your request** = *Click* **Submit Query**

A data file should appear on screen.

3. In **Netscape** *select* **File > Save As > C:\Temp\Tor96.txt** (Make sure you *change* the **extension** to **.txt NOT .html**)

4(a). *Open* the **.txt file** in **WordPad**

4(b). *Delete* unneeded **rows** (i.e. header information, empty rows, and the summary data row

(first row of the actual data)) until you are left with the raw data and column headings.

4(c). **File > Save As > C:\temp\Tor96-2.txt (Text Document)**

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tor96.txt - WordPad                                          _ 8 X
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        0001.00     1012      618.00      695.00     12.50      5.44
        0002.00     1013      592.00      563.00     -4.90      3.44
        0004.00     1015     7050.00     6940.00     -1.60      0.31
        0005.00     1016     5087.00     5374.00      5.60      0.36
        0006.00     1017      280.00      247.00    -11.80      0.03
        0008.00     1019     1336.00     1303.00     -2.50      1.99
        0009.00     1020      300.00      298.00     -0.70      0.10
        0010.00     1021     6715.00     6891.00      2.60      0.73
        0011.00     1022      836.00      945.00     13.00      0.98
        0012.00     1023     1955.00     2174.00     11.20      1.14
        0013.00     1024     4573.00     5299.00     15.90      0.73
        0014.00     1025      304.00      453.00     49.00      0.44
        0015.00     1026     1364.00     1877.00     37.60      0.28
        0016.00     1027     1133.00     1465.00     29.30      0.67
        0017.00     1028     4671.00     5207.00     11.50      1.14
        0018.00     1029     1822.00     1925.00      5.70      0.34
        0019.00     1030     3209.00     3417.00      6.50      0.44
        0021.00     1032     5199.00     5248.00      0.90      0.85
        0022.00     1033     3857.00     3805.00     -1.30      0.54
        0023.00     1034     3176.00     3303.00      3.70      0.67
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5(a). *Open* **Microsoft Excel**

5(b). **File > Open > C:\Temp\Tor96-2.txt** (Change Files of Type = Text Files)

5(c).   The **Text Import Wizard Step 1 of 3** should *open*.
         For **Original Data Type** = **Fixed Width**
         Select **Next**
         The **Text Import Wizard Step 2 of 3** should *open*
         Select **Next**
         The **Text Import Wizard Step 3 of 3** should *open*
         Select **Finish**

5(d). **File > Save As > C:\Temp\Tor96-3.txt (Text Tab Delimited).** *Select* **Save**, then **Yes.**

	A	B	C	D	E	F	G	H	I
1	V1	V2	V8	V9	V10	V11	V12		
2	0	0	3898933	4263757	9.4	5867.73	4263760		
3	1	1012	618	695	12.5	5.44	695		
4	2	1013	592	563	-4.9	3.44	560		
5	4	1015	7050	6940	-1.6	0.31	6940		
6	5	1016	5087	5374	5.6	0.36	5375		
7	6	1017	280	247	-11.8	0.03	250		
8	8	1019	1336	1303	-2.5	1.99	1305		
9	9	1020	300	298	-0.7	0.1	295		
10	10	1021	6715	6891	2.6	0.73	6890		
11	11	1022	836	945	13	0.98	945		
12	12	1023	1955	2174	11.2	1.14	2175		
13	13	1024	4573	5299	15.9	0.73	5300		
14	14	1025	304	453	49	0.44	450		
15	15	1026	1364	1877	37.6	0.28	1875		
16	16	1027	1133	1465	29.3	0.67	1465		
17	17	1028	4671	5207	11.5	1.14	5205		
18	18	1029	1822	1925	5.7	0.34	1925		

C.   Editing Geographic File's Table

Open **MapInfo**

2. *Select* **Open a Table**, now *select* **Open**.   *Open* **C:\Temp\Gct_535b.tab**

3. From the **Main Menu Bar** *select* **Window > New Browser Window**

Currently, the CTName field in the geographic data table is in a different numeric format than the equivalent field in the census data table. It therefore must be reformatted to match. We will add a new empty field to the table.

4. From the **Main Menu Bar** *select* **Table > Maintenance > Table Structure > Add Field**
        Field Information : **Name = CTNum**
                        Type = Float
                Select **OK**

5. From the **Main Menu Bar** *select* **Window > New Browser Window**

The new Column **CTNum** should be there. We will now populate the empty column with matching CTName values in numeric format.

6(a). From the **Main Menu Bar** *select* **Table > Update Column**
        Table to Update = Gct_535b
        Column to Update = CTNum
        Get Value From Table = Gct_535b
        Value = *click* the **Assist button**

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6(b). An Expression window should open
    Type in **Val(CTname)**
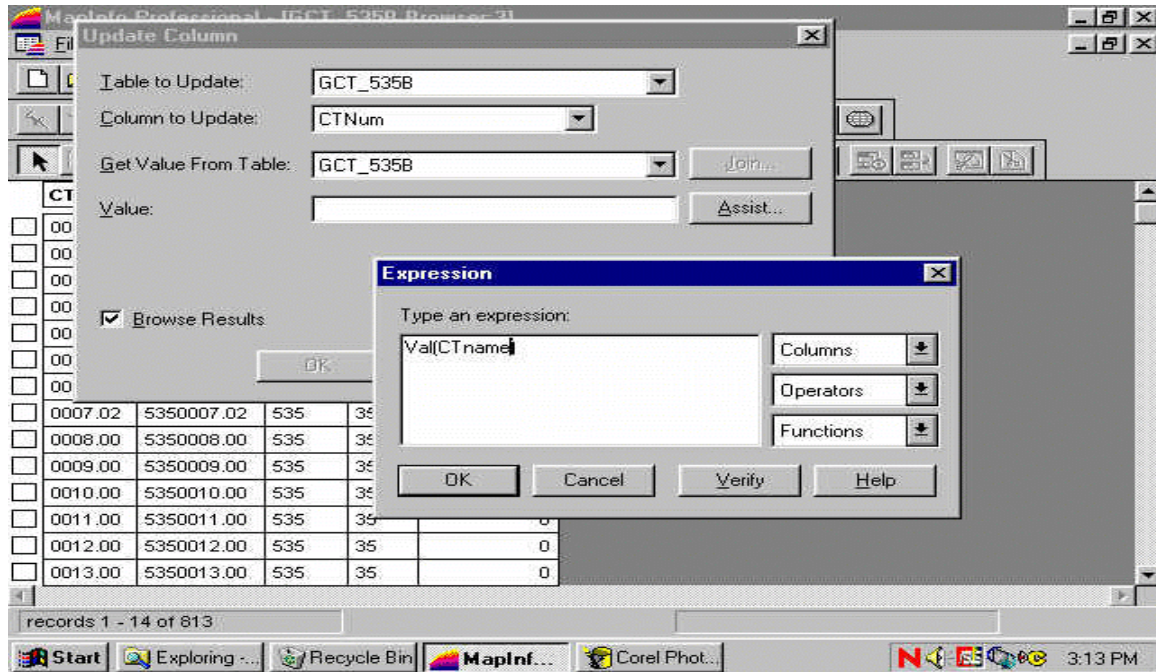
This will change strings like: "0007.01" to valid numbers like 7.01.

D.   Join Attribute Census Data to Geographic Data

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1. From the **Main Menu Bar** *select* **File > Open Table > C:\Temp\Tor96-3.txt (Change Files of Type: Delimited ASCII .txt).** Then *select* **open**.

2. From the **Delimited ASCII Information Window**:
        Delimiter = Tab
        Select **Use First Line For Column Titles**
        Then *select* **OK**.

3. From the **Main Menu Bar** *select* **Query > SQL Select**
        Select Columns = *
        from Tables = Gct_535b, Tor96_3 (select both the geographic and attribute tables from Tables pull-down list)
        where Condition = Gct_535b.CTNum = Tor96_3.V1 (CT geographic ID = CT attribute ID)
        Now *select* **OK**
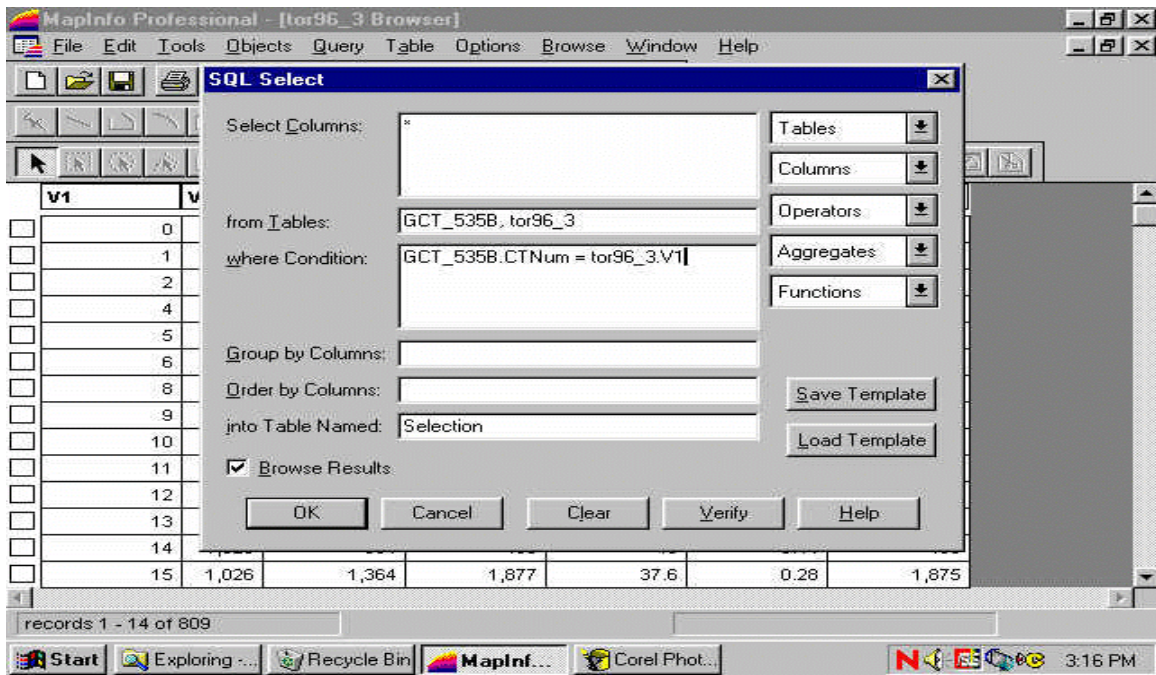
The two tables have linked. Save this newly linked table.

4. **File > Save Copy As > Query1 > Save As > Tor96Data** (what name you want) **> Save**

5. From the **Main Menu Bar** *select* **File > Close All > Discard All**

6. Then *select* **File > Open Table > Tor96Data** (is your new file with the geographic and attribute data combined)

7. From the **Main Menu Bar** *select* **Window > New Browser Window**