Having Fun with Tables and Reports

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Tables

Layer and Field Properties
Table toolbar and menu commands
Associating Tables
Working with Excel spreadsheets
What’s New in ArcGIS 10.1 – Tables

- Rename a field
- Table can honor Time in the map
- Maximize the Table window
- Go to Page command (for data-driven pages)
- Sort coded-value domains (by code or description) GP tool

- Quality Improvements
  - Editing attributes
  - Working with joined data
  - Table elements on the layout
What’s New in ArcGIS 10.2 – Tables

- Ability to change field properties
  - Real schema changes
What’s New in ArcGIS 10.2 – Tables

• GP Tool > Excel to Table/Table to Excel
Dockable Table window

- Table window is a container for all open tables
- View multiple tables at once *within* Table window
  - Table Options > Arrange tables
  - Side by side horizontally
  - Stacked vertically
Working with Field Properties

- New Fields tab
- Properties are honored
  - Identify
  - Attributes window
  - Table window
  - After creating join
- New Properties
  - Highlight
  - Read-only
Field Types

• Choose the right field type for the right value

  Short Integer ParcelID: 1001
  Text CountyName: Hamilton
  Double Area: 12,242.5
  Date SurveyDate: 08/13/97
  BLOB SurveyImage:
Using the Field Calculator

• Update multiple records in the table
• Choose between VBScript or Python
  - List of functions for working with numbers, text, date
• VBA is deprecated in ArcGIS
Working with Excel Spreadsheets

- **XLS or XLSX files**
  - Act as a container
  - Add worksheets, named ranges
- **Field naming guidelines**
  - Refer to ArcGIS Desktop Help
- **Export to Excel**
  - Geoprocessing tool and script gallery
Associating Tables

**Relates**
- Tables remain independent
- Stored in map document
- All cardinality

**Relationship Classes**
- Tables remain independent
- Permanent in Geodatabase
- All cardinality

**Joins**
- Append records
- Stored in map document
- Field properties honored
- 1:1, Many:1 cardinality
- Label, symbol, query
Reports

Report Wizard
Report Viewer
Report Designer
Create, Load, and Run Reports
What’s New?
# Reports - Examples

## Parcel Information

<table>
<thead>
<tr>
<th>Name</th>
<th>ParcelID</th>
<th>Area_Meters</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ameas Crosby</td>
<td>L0033</td>
<td>1124.35</td>
<td>12528 Charing Cross Rd</td>
</tr>
<tr>
<td></td>
<td>L0034</td>
<td>1135.16</td>
<td>4015 Lockfilm Ct</td>
</tr>
<tr>
<td></td>
<td>L0035</td>
<td>1136.7</td>
<td>12052 Charing Cross Rd</td>
</tr>
<tr>
<td></td>
<td>L0036</td>
<td>1140.88</td>
<td>12739 Charing Cross Rd</td>
</tr>
<tr>
<td></td>
<td>L0037</td>
<td>1140.92</td>
<td>4035 Lockfilm Ct</td>
</tr>
<tr>
<td></td>
<td>L0038</td>
<td>1167.85</td>
<td>12730 Weebly Rd</td>
</tr>
<tr>
<td></td>
<td>L0039</td>
<td>1172.22</td>
<td>12970 Caiborne Ct</td>
</tr>
<tr>
<td></td>
<td>L0040</td>
<td>1174.97</td>
<td>4045 Lockfilm Ct</td>
</tr>
</tbody>
</table>

## Anthony Brocket

<table>
<thead>
<tr>
<th></th>
<th>ParcelID</th>
<th>Area_Meters</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L0037</td>
<td>1180.10</td>
<td></td>
</tr>
</tbody>
</table>

## Anthony Tran

<table>
<thead>
<tr>
<th></th>
<th>ParcelID</th>
<th>Area_Meters</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L0039</td>
<td>977.26</td>
<td></td>
</tr>
<tr>
<td></td>
<td>L0040</td>
<td>1049.47</td>
<td></td>
</tr>
</tbody>
</table>

## Population Analysis of Mexico

### POP90_SQMI 10 - 20

<table>
<thead>
<tr>
<th>Area</th>
<th>Name</th>
<th>Population</th>
<th>Urban</th>
<th>English</th>
<th>Employed</th>
<th>Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baja California Sur</td>
<td>317764</td>
<td>78.3%</td>
<td>1</td>
<td>11.8</td>
<td>67304</td>
<td></td>
</tr>
</tbody>
</table>

**Count:** 1  
**Sum:** 317764

### POP90_SQMI 30 - 40

<table>
<thead>
<tr>
<th>Area</th>
<th>Name</th>
<th>Population</th>
<th>Urban</th>
<th>English</th>
<th>Employed</th>
<th>Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quintana Roo</td>
<td>492277</td>
<td>73.9%</td>
<td>32.2</td>
<td>15.5</td>
<td>102859</td>
<td></td>
</tr>
<tr>
<td>Chiapas</td>
<td>2441073</td>
<td>77.4%</td>
<td>2.9</td>
<td>35.9</td>
<td>529759</td>
<td></td>
</tr>
<tr>
<td>Sonora</td>
<td>1625609</td>
<td>79.1%</td>
<td>8</td>
<td>25.4</td>
<td>576517</td>
<td></td>
</tr>
<tr>
<td>Campeche</td>
<td>535185</td>
<td>70%</td>
<td>19.4</td>
<td>19.4</td>
<td>107894</td>
<td></td>
</tr>
<tr>
<td>Durango</td>
<td>1649378</td>
<td>57.4%</td>
<td>1.6</td>
<td>26.6</td>
<td>262164</td>
<td></td>
</tr>
<tr>
<td>Coahuila De Zaragoza</td>
<td>1592840</td>
<td>86.1%</td>
<td>0.2</td>
<td>97.7</td>
<td>404691</td>
<td></td>
</tr>
</tbody>
</table>

**Count:** 6  
**Sum:** 8615653
What’s New in ArcGIS 10.1 – Reports

- Automation using arcpy.mapping or ArcObjects
- Support for related data using RelatedReports
- Support for data-driven imagery
  - Attachments
  - Field-based filepaths
  - URL filepaths
- Support for unbound calculated fields
- New data source option: Visible features
What’s New in ArcGIS 10.2 – Reports

• Mailing Labels in the Report
Running Reports - Workflows

Editor -> Data -> Analysis -> .RLF (template) -> Report
Ability to update Field Properties

- For empty tables and feature classes:
  - modify the field length, both increase and decrease
  - change the Allow Nulls property to either YES or NO
  - change the field type

- For populated tables and feature classes
  - increase the field length
  - change the Allow Nulls property from NO to YES
Steps to evaluate UC sessions

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• Search for session

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• Thank you for attending
• Open for Questions

• Please fill out the evaluation:
  www.esri.com/ucsessionssurveys
  
  **Offering ID: 904**

• We (Matt and Kent) read every comment and incorporate constructive feedback into our workshops