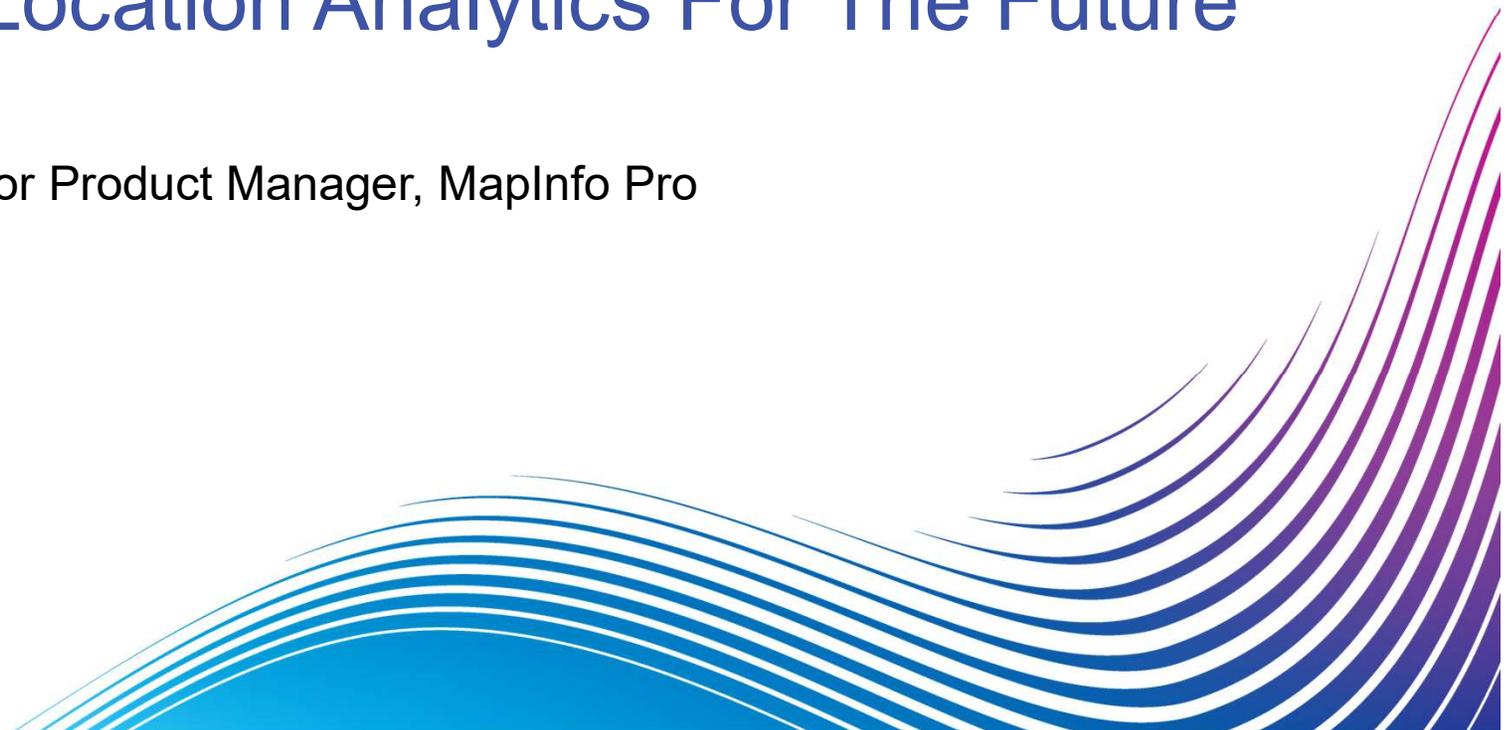


Mapinfo Pro Flexible Location Analytics For The Future

Jim Stone, Senior Product Manager, MapInfo Pro



Agenda

What is Flexible Location Analytics?

MapInfo Pro Roadmap 2019 and Beyond

SQL Select Dialog Overhaul (Peter Horsboll Moller)

Tech Support Update (Julia Steinecker)

Flexible Enterprise Location Analytics



What is Enterprise Location Analytics?

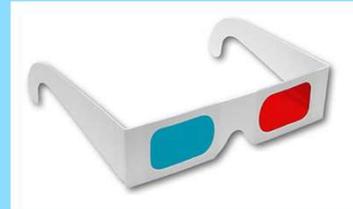
Definitions

- 1. Enterprise** (adjective) – pertaining to the *collaborative distribution of work* across an organization with the goal of *maximizing the quality of decision outcomes* by utilizing *diverse skills and efficient processes*.
- 2. Location Analytics** (noun) – the process of *combining people, data, and software-based systems to improve location-based decision outcomes* in an organization.

What is Enterprise Location Analytics?



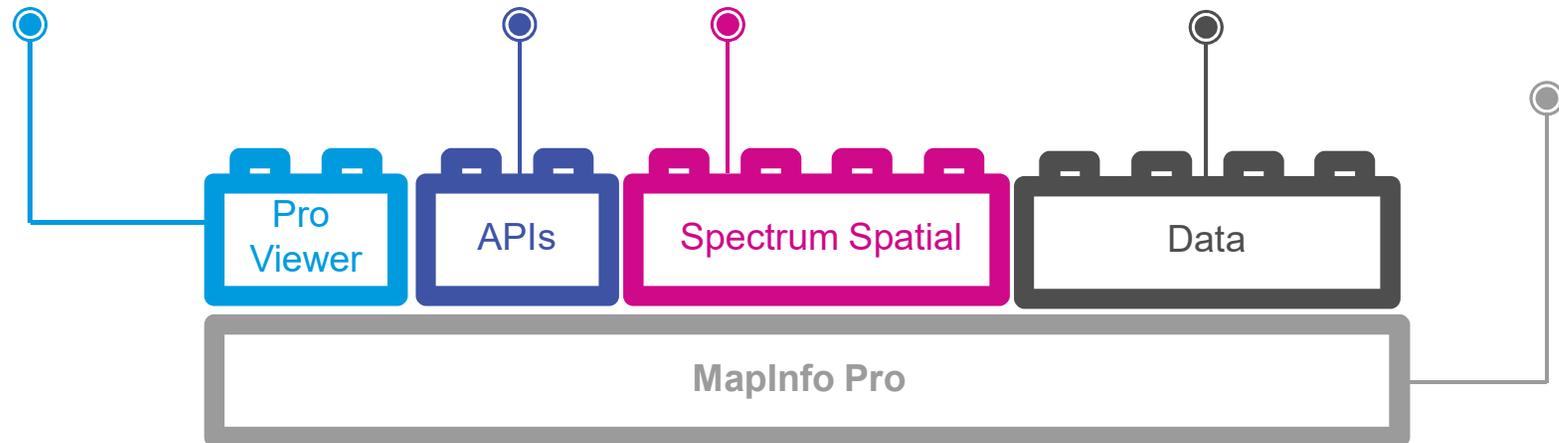
*2 D – One Publisher
Many Readers*



*3 D – Shared System
Many Participants*

Pitney Bowes Approach to Enterprise Location analytics (ELA)

- Pro Viewer
- Used by Business Users
- Extends Pro usage
- Light weight to support map viewing
- Add value to MapInfo Pro
 - GeoZones
 - Geocoding
 - GeoEnrich - POIs (coming soon)
- Enables Location Analytics in the Enterprise
 - Web Mapping
 - Used by Business Analysts to Analyze Spatial Data
 - Extensibility
- Software & Data Marketplace
 - Some Free Datasets
 - Support Vertical Use Cases
- Core to ELA
 - Desktop GIS
 - User persona is expanding from GIS > BA/Self Serve
 - ~100,000 users globally



Map Tools: Map, Open, Add Theme, Add To Map, Cosmetic, Select, SQL Select, Find, Invert, Clear, Insert, Style, Pan, Zoom In, Zoom Out, Zoom To, Previous View, Move To, Change View, Label Tool, Text Objects, Label, Selectable, Clear Custom, Priority, Map Tools, Redistricter, Map Options, Lock Scale, Hotlink Options, Drag Map, Lock Scale

Explorer Panel

Search: [Search]

Maps

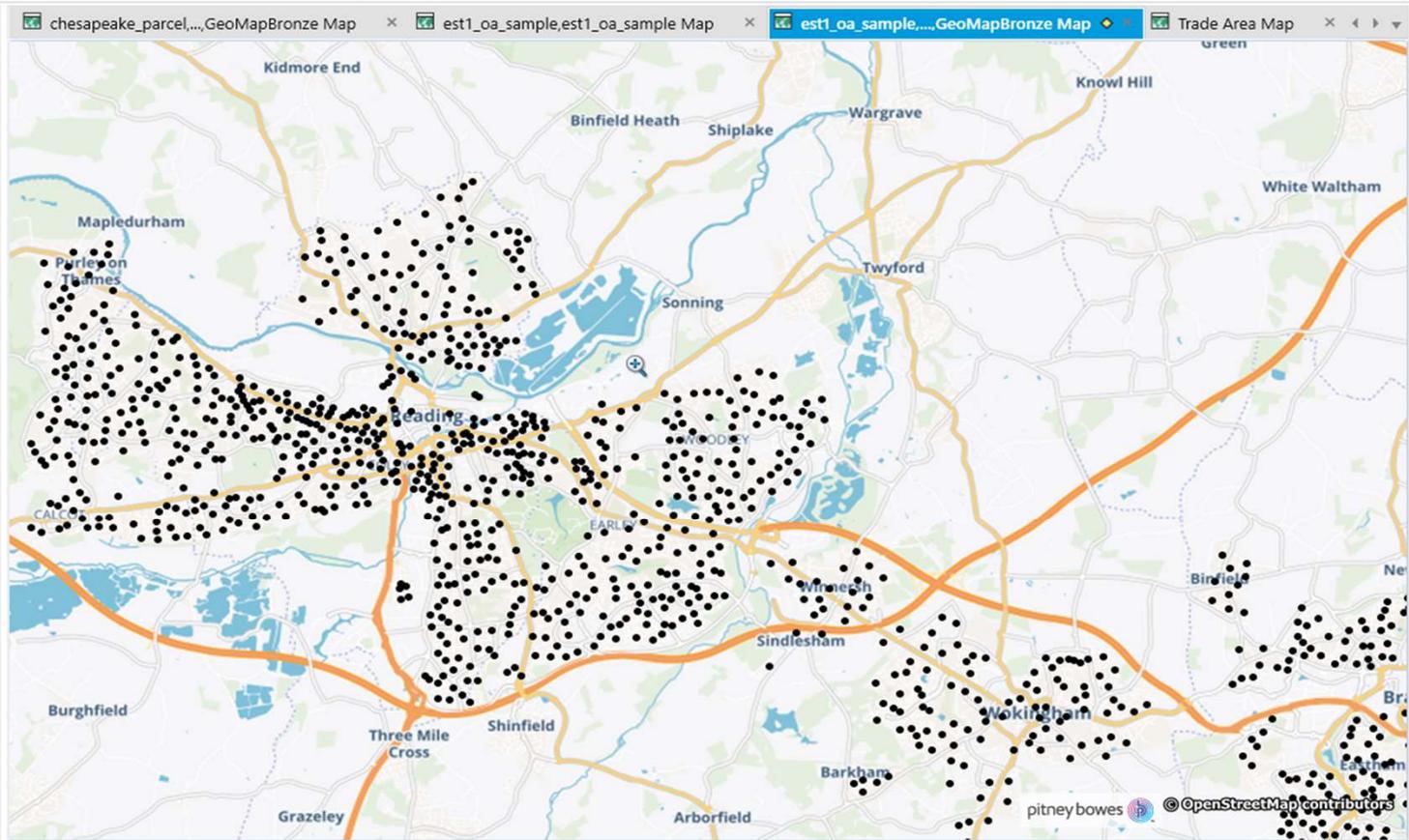
- Trade Area Map
- chesapeake_parcel,...GeoMapBronze Map
- est1_oa_sample,est1_oa_sample Map
- est1_oa_sample,...GeoMapBronze Map**
 - Cosmetic Layer
 - est1_oa_sample
 - est1_oa_sample_Interp
 - GeoMap Bronze

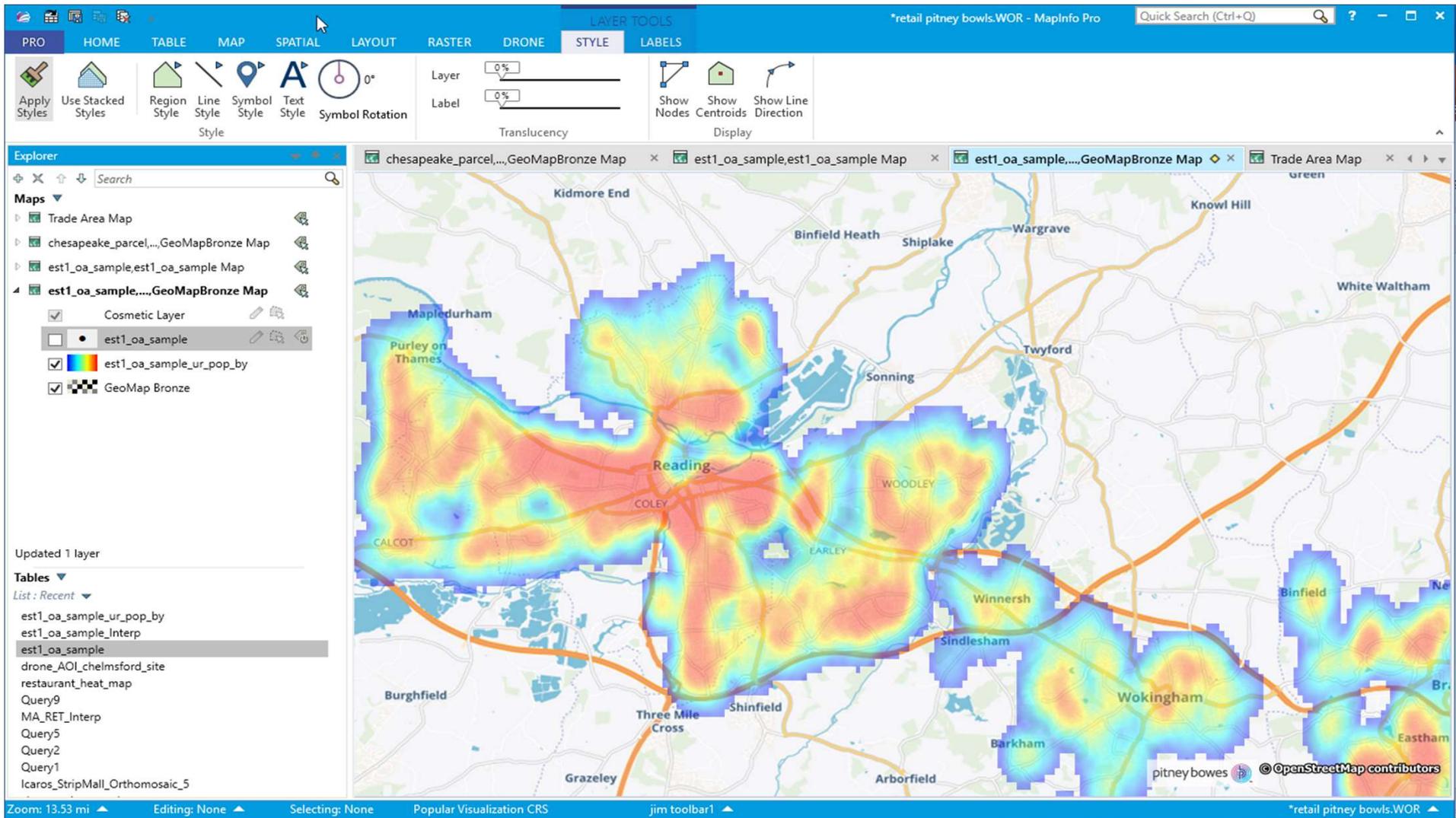
Updated 1 layer

Tables

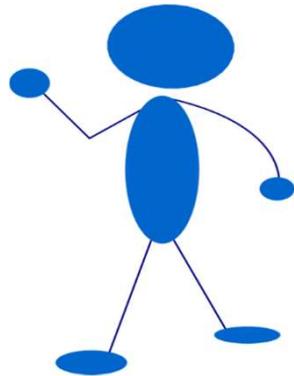
List: Recent

- est1_oa_sample_Interp
- est1_oa_sample_ur_pop_by
- est1_oa_sample**
- drone_AOI_chelmsford_site
- restaurant_heat_map
- Query9
- MA_RET_Interp
- Query5
- Query2
- Query1
- Icaros_StripMall_Orthomosaic_5

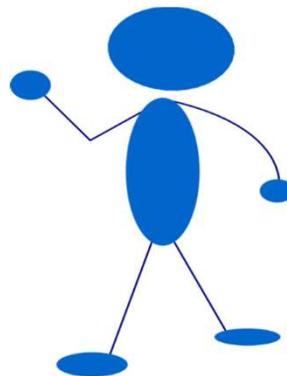




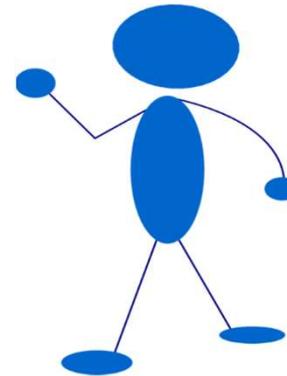
Different Versions for Different User types



GIS Analyst
MapInfo Pro



Business Analyst
MapInfo Explorer



Business User
MapInfo Pro Viewer

3 Year Term Licensing for New Customers – Starts July 1, 2019

- Over 30% less expensive than Perpetual License
- More flexible for organizations with changing roles and needs based on projects and business cycles
- How it works:
 - Upfront payment for license and S&S (maintenance) for year 1
 - S&S optional in years 2 and 3

Roadmap

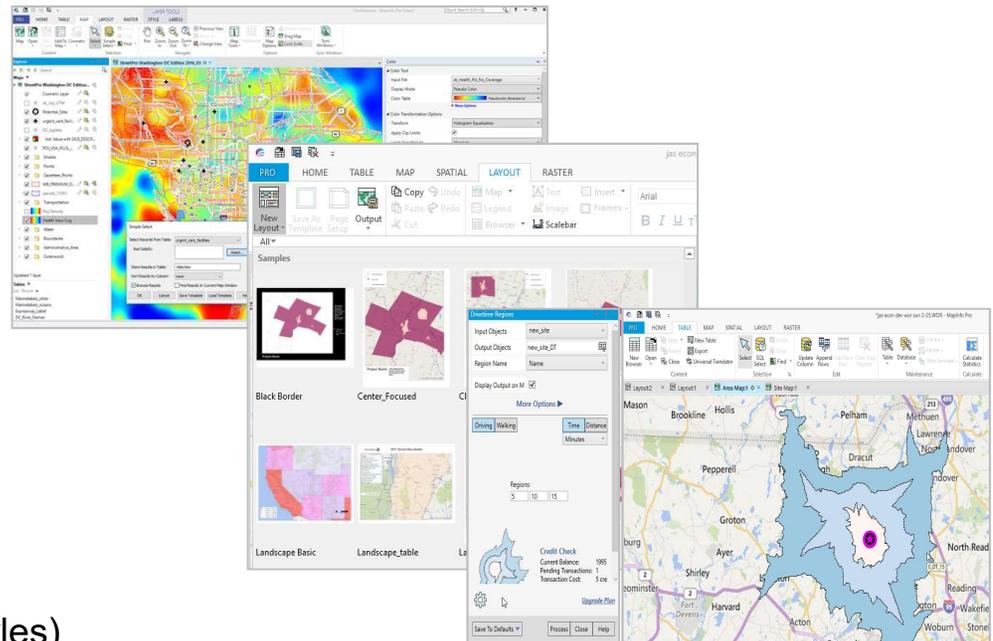


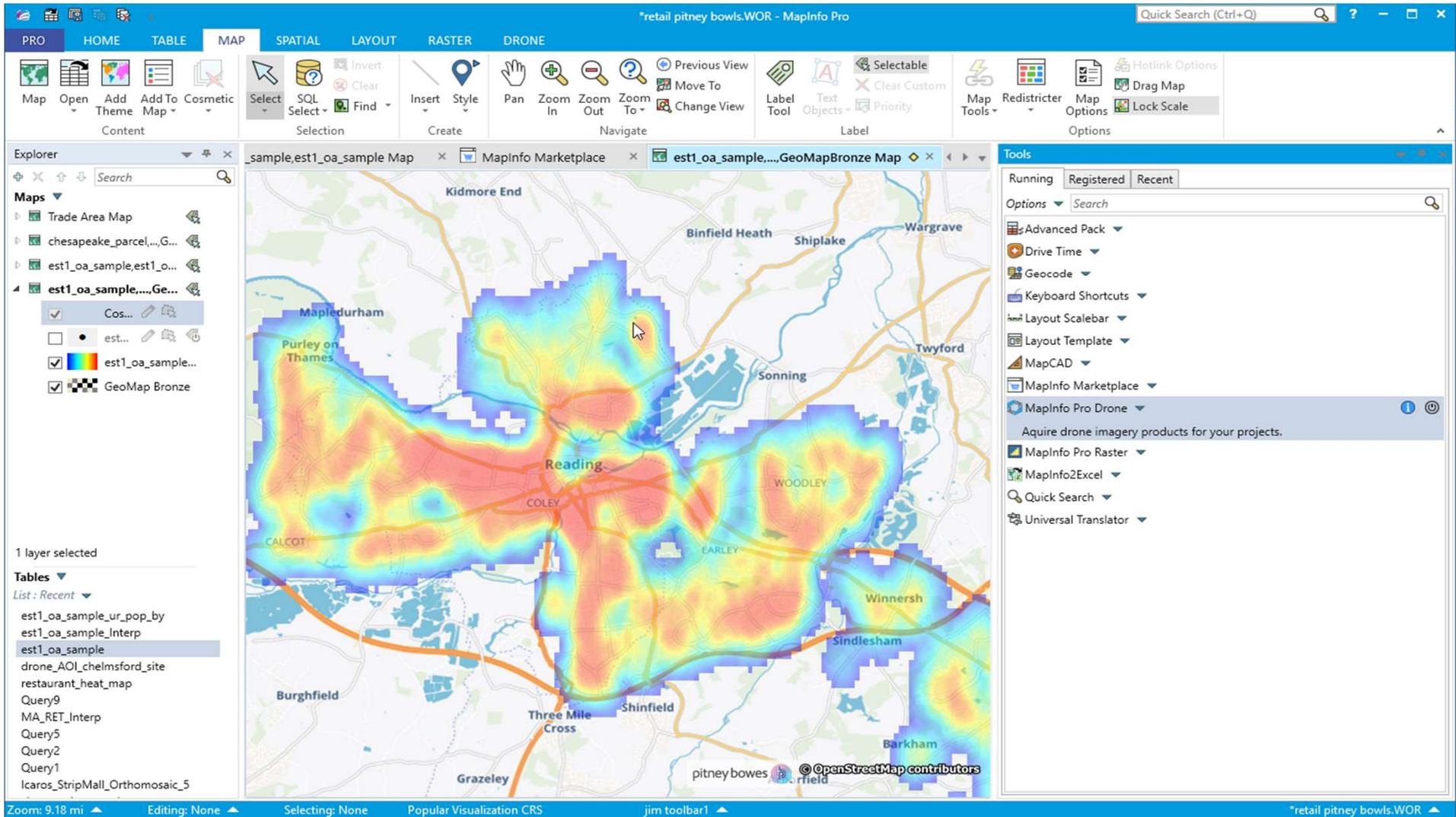
MapInfo Pro 2019



Release schedule

- V 17.03 - **June 4, 2019**
 - [MapInfo Marketplace Preview](#)
 - [Customizable Keyboard Shortcuts](#)
 - [Python Support \(2 ways\)](#)
 - [MapInfo Pro Drone add-in](#)
 - GDAL for Native X, MRR (read)
 - Over 20 Customer Bug Fixes
- V 2019 October 2019
 - MapInfo Marketplace Release
 - SQL Select Dialog Overhaul
 - Layout Improvements (line and fill styles)
 - [Heat Mapper Tool](#)
 - POI Downloader App





PRO HOME TABLE MAP SPATIAL LAYOUT RASTER DRONE

Open Open Table Save Save Close Copy Cut Paste New Document Tool Windows Recover Windows Create Print Save Image Page Setup Excel Excel Tool Extensions MapInfo Marketplace

Explorer

Search

Maps

- Trade Area Map
- chESApeake_parcel,...,G...
- est1_oa_sample,est1_o...
- est1_oa_sample,...,Ge...

1 layer selected

Tables

List: Recent

- est1_oa_sample_ur_pop_by
- est1_oa_sample_Interp
- est1_oa_sample

MapInfo Marketplace Preview

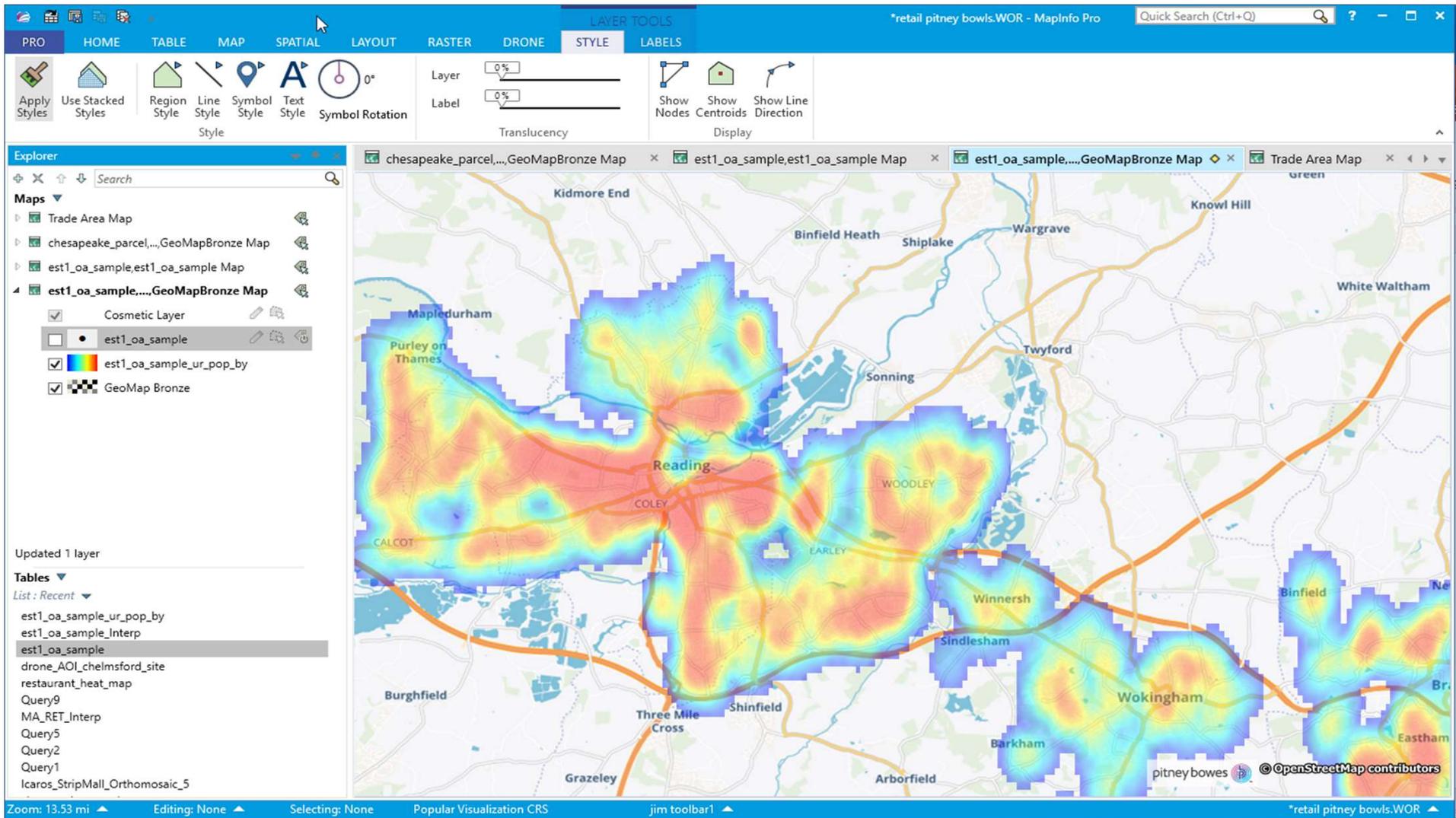
Home Category

Featured Products

- Batch export to CSV
- Icaros Drone Imagery
- Layout
- Mask
- apInfo2Excel

Data Analysis
Data Conversion
Mapper Tools
Search Tools
Spatial
Visualization
Workspace Management

EXCEL



MapInfo Pro *retail pitney bowls.WOR - MapInfo Pro Quick Search (Ctrl+Q)

PRO HOME TABLE MAP SPATIAL LAYOUT RASTER DRONE STYLE LABELS

Apply Styles Use Stacked Styles Region Style Line Style Symbol Style Text Style Symbol Rotation 0°

Layer 0% Label 0%

Translucency Show Nodes Show Centroids Show Line Direction Display

Explorer

Search

Maps

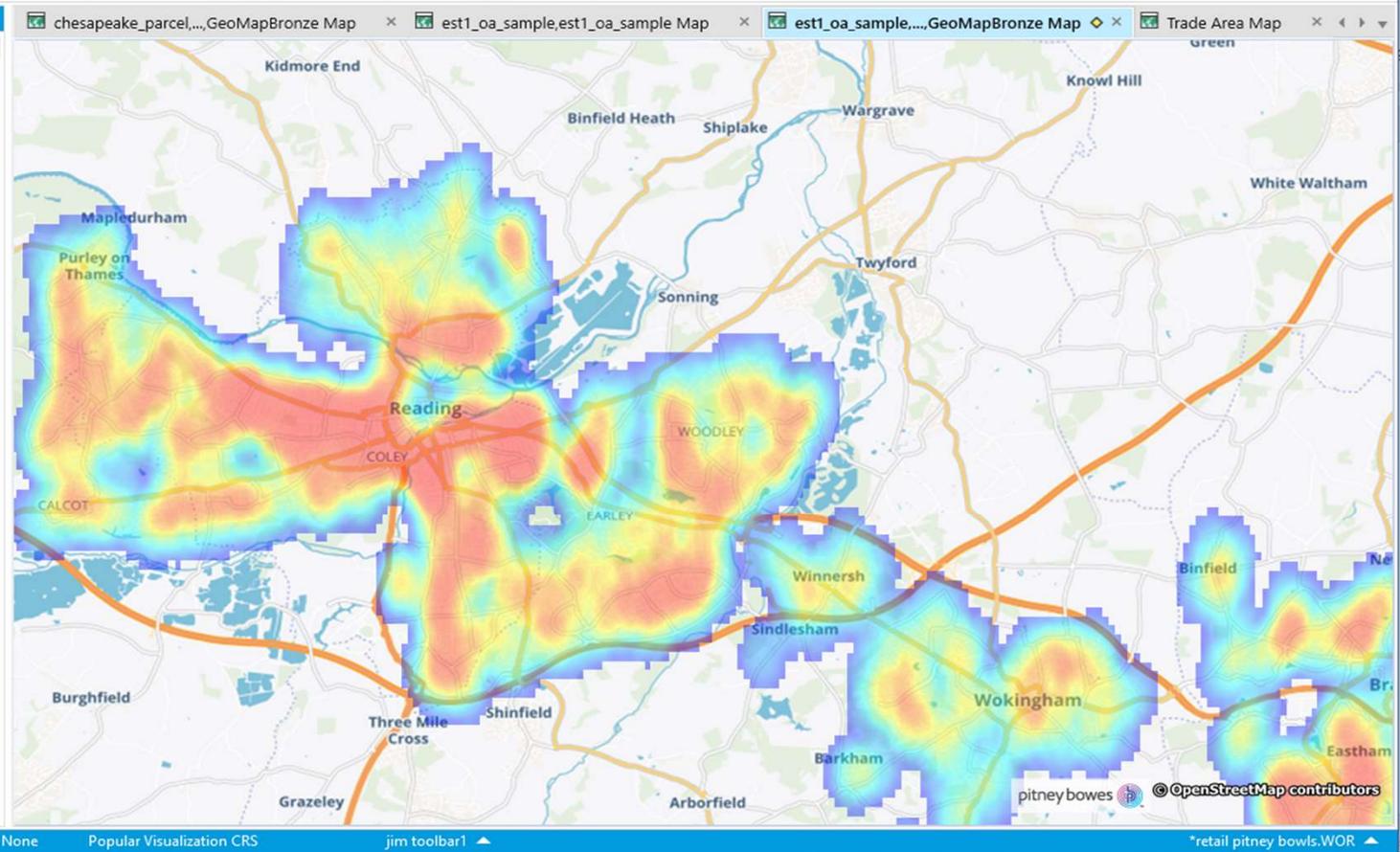
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- restaurant_heat_map
- Query9
- MA_RET_Interp
- Query5
- Query2
- Query1
- Icaros_StripMall_Orthomosaic_5



Zoom: 13.53 mi Editing: None Selecting: None Popular Visualization CRS jim toolbar1 *retail pitney bowls.WOR

MapInfo Pro interface showing the MAP tab and the Keyboard Shortcuts dialog box.

Application Shortcuts Window Shortcuts

Command Id	Command	KeyGesture	MenuItemText	MenuItemToggleText	ToolTipDescription
	SaveCurrentWorkspace	Ctrl+Shift+S	Save Workspace	Save Workspace	Save Current Workspace (Ctrl+Shif
	NewTable	Ctrl+N	New Table	New Table	New Table (Ctrl+N)
	OpenTable	Ctrl+O	Open Table	Open Table	Open Table (Ctrl+O)
	CloseTable		Close Table	Close Table	Close Table
	CloseAll		Close All	Close All	Close All
	SaveTable	Ctrl+S	Save Table	Save Table	Save Table (Ctrl+S)
	SaveCopyAs		Save Copy As	Save Copy As	Save Copy As
	AddWorkspace	Ctrl+Shift+A	Insert Workspace	Insert Workspace	Insert Workspace (Ctrl+Shift+A)
	SaveWorkspace		Save Workspace As	Save Workspace As	Save Workspace As
	RunMapBasic	Ctrl+U	Run MapBasic Program	Run MapBasic Program	Start a MapBasic Application (Ctrl+
	PageSetup		Page Setup...	Page Setup...	Page Setup
	Print	Ctrl+P	Print	Print	Print (Ctrl+P)
	Exit	Alt+F4	Exit	Exit	Exit (Alt+F4)
	OpenDBMS		Open DBMS	Open DBMS	Open DBMS
	SaveQuery		Save Query	Save Query	Save Query
	CloseDBMS		Close DBMS	Close DBMS	Close DBMS

Buttons: Restore to Defaults, OK, Cancel, Help, <-- Basic

Status bar: Zoom: 13.53 mi, Editing: None, Selecting: None, jim toolbar1, *retail pitney bowls.WOR

LAYOUT PYGDAL
 Insert, Clear, Find, Insert, Style, Pan, Zoom In, Zoom Out, Zoom To, Previous View, Move To, Change View, Label Tool, Priority, Map Tools, Redistrictor, Map Options, Lock Scale, Hotlink Controls, Drag Map, Lock Scale

Demographic_example.BingRoads Map Python GDAL Plot

D:/Work/mimb_trunk/SAMPLES/RIBBONINTERFACE/Python/py_addin_gdal/data/Demographic_exampleX.TAB Pick Table Attribute Plot

Sample Income Plot (Demographic Data)

Legend Designer for Demographic_ex...
 Demographic_example by Median_rent_weekly
 433 to 700 (80)
 405 to 433 (56)
 355 to 405 (86)
 134 to 355 (75)

The map displays a geographic area around Brisbane, Australia, with various suburbs labeled such as Teneriffe, Murarrie, KANGA, and Moorooka. The map is overlaid with a grid of colored polygons representing demographic data. The colors range from light yellow to dark blue, corresponding to the legend on the right. The legend is titled 'Demographic_example by Median_rent_weekly' and lists four categories with their respective color codes and counts: 433 to 700 (80) in dark blue, 405 to 433 (56) in medium blue, 355 to 405 (86) in light blue, and 134 to 355 (75) in light yellow.

The scatter plot, titled 'Demographic_exampleX', shows a positive correlation between 'Household_inc_Tot' (ranging from 0 to 400) and 'Median_rent_weekly' (ranging from 0 to 700). The data points are represented by blue dots, and a blue regression line is fitted to the data. A light blue shaded area around the regression line indicates the confidence interval. The plot shows that as household income increases, the median rent also tends to increase, though with some scatter.

retail pitney bowls.WOR - Ma Quick Search (Ctrl+Q)

PRO HOME TABLE MAP SPATIAL LAYOUT RASTER DRONE STYLE LABELS

Manage Account Area Of Interest + Drone Project Launch Drone Project Analytics Project Analyze

chESAPEAKE_pARCEL.....

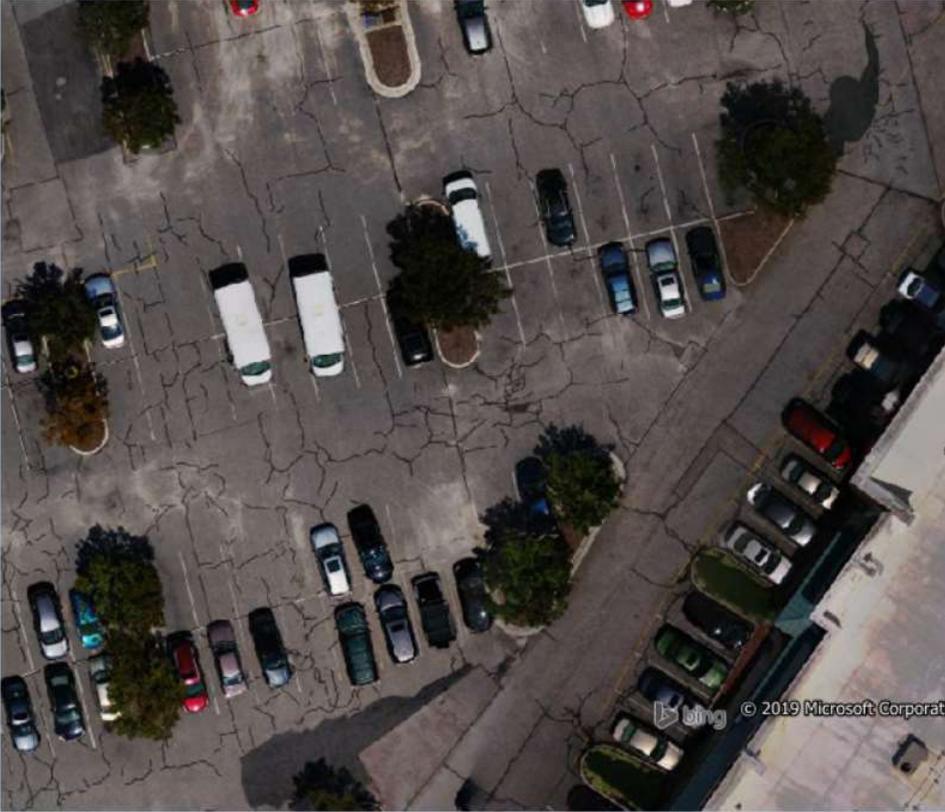
- ✓ Cos...
- ✓ che...
- ☐ Drone Image 5...
- ✓ Drone Image 1...
- ✓ BingHybrid_2
- ✓ GeoMap Bronze
- ▾ est1_oa_sample,est1_o...
- ▾ est1_oa_sample,Geo...

Updated 1 layer

Tables

List: Recent

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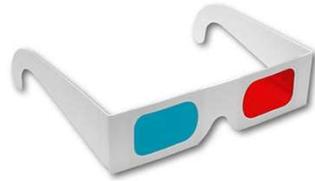

© 2019 Microsoft Corporation © 2019 DigitalGlobe © CNES (2019) Distribution Airbus DS © 2019 HERE

pitney bowes © OpenStreetMap contributors

Zoom: 0.06246 mi Editing: chESAPEAKE_pARCEL Selecting: None Popular Visualization CRS jim toolbar1 *retail pitney bowls.WOR

MapInfo Pro 2020 Vision

- MapInfo Pro Explorer version
- Client license management admin tool
- Vertical market apps integrated with data
- Interoperability with Spectrum Spatial
- [Graphical workflow designer](#)
- Cloud-based capabilities



E	1	20/200
F P	2	20/100
T O Z	3	20/70
L P E D	4	20/50
P E C F D	5	20/40
E D F C Z P	6	20/30
F E L O P Z D	7	20/25
D E F P O T E C	8	20/20
L E F O D P C T	9	
F D P L T C E O	10	
F E Z O L C F T D	11	

Enterprise Location Analytics For All

Why is this Important?

- Rerun complex tasks quickly
- Perform “what if” analysis by changing parameters
- Create documentation for processes to be used by others
- Create “self-service” processes that can be executed by non-technical users

The screenshot displays the MapInfo Pro interface with a workflow diagram and a map of Florida. The workflow diagram is as follows:

```
graph LR; A[My Stores] --> B[SQL Select]; C[My Competitors] --> D[SQL Select]; B --> E[Buffer]; D --> E; E --> F[New Browser]; E --> G[Map];
```

The workflow steps are:

1. Open Tables
2. Filter Tables
3. Buffer Stores and count competitors
4. Generate table
5. Generate map

The map shows Florida with various locations marked, including Jacksonville, Tallahassee, Panama City, and Petachuan. The Midas Browser table is visible with the following data:

ADDR	CITY16
138 US ROUTE 1	SCARBOROU
95 LARRABEE RD	WESTBROOK
570 FOREST AVE	PORTLAND
512 CANAL ST	LEWISTON
155 COLLEGE AVE	WATERVILLE
62 WESTERN AVE	AUGUSTA
1620 RHODE ISLAND AVE NE	WASHINGTON
625 NEW YORK AVE NW	WASHINGTON
11463 W BROAD ST	RICHMOND
7070 W BROAD ST	HENRICO

We Need Your Input!

- Knowledge Communities
- [Ideas Page](#)
- Client Visits
- Contact me!

MapInfo Pro

Settings

Share

Community Home

Discussion 2.8K

Blogs 5

Events 11

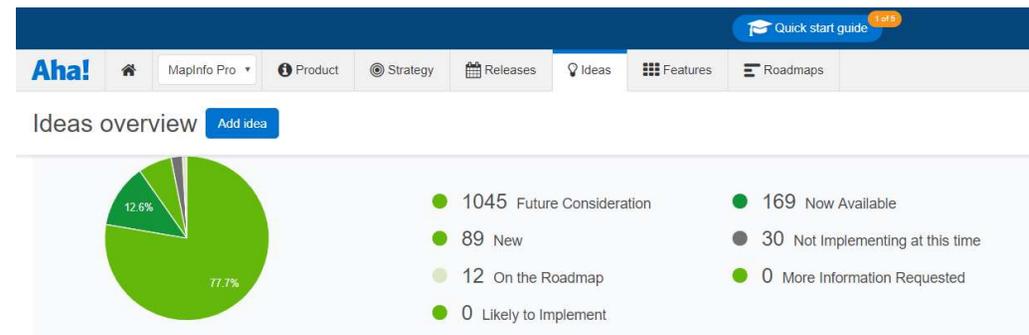
Members 375

Welcome to the MapInfo Pro community! Please feel free to start a discussion in the discussion tab or join in a conversation.

Here are some useful links where you can find more information:

MapInfo Pro Product Information

MapInfo Pro Ideas Page





Pitney Bowes Software & Data Product Ideas

Welcome to the Pitney Bowes Software & Data Ideas Website. This website is intended to provide you with an open and collaborative channel to submit your innovative ideas around Pitney Bowes Software's existing and future offerings. You can easily submit new ideas or comment on existing ideas in a way that is visible and transparent to all participants. You also have the unique opportunity to contribute to an idea's overall popularity by promoting the idea. The Pitney Bowes Software & Data Product Management team will review popular ideas and evaluate their potential for inclusion in our short and long term development plans. Participants who have submitted or commented on an idea may be contacted by our team. Your contact information will not be used for any other purpose. We value your contribution to making Pitney Bowes Software & Data offerings even better and look forward to seeing your ideas.

Important Note: We are changing the "Added to Product Backlog" Status to "Likely to Implement"

Add a new idea

My ideas 0

My votes 0

FILTER BY STATUS

New 151

Future Consideration 1943

Pitney Bowes | MapInfo User Group UK

Recent

Trending

Popular

Search ideas

1

VOTE

Notification Bundle - deliverDocument request elapsed time

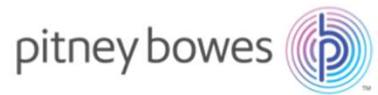
In an EngageOne environment used for OnDemand purpose, where deliverDocument Soap Service is used in order to produce output document, is really important to be able to get the elapsed time for each request submitted to the environment. I mean th...



Created about 3 hours ago by Diego Maggiori
EngageOne Compose

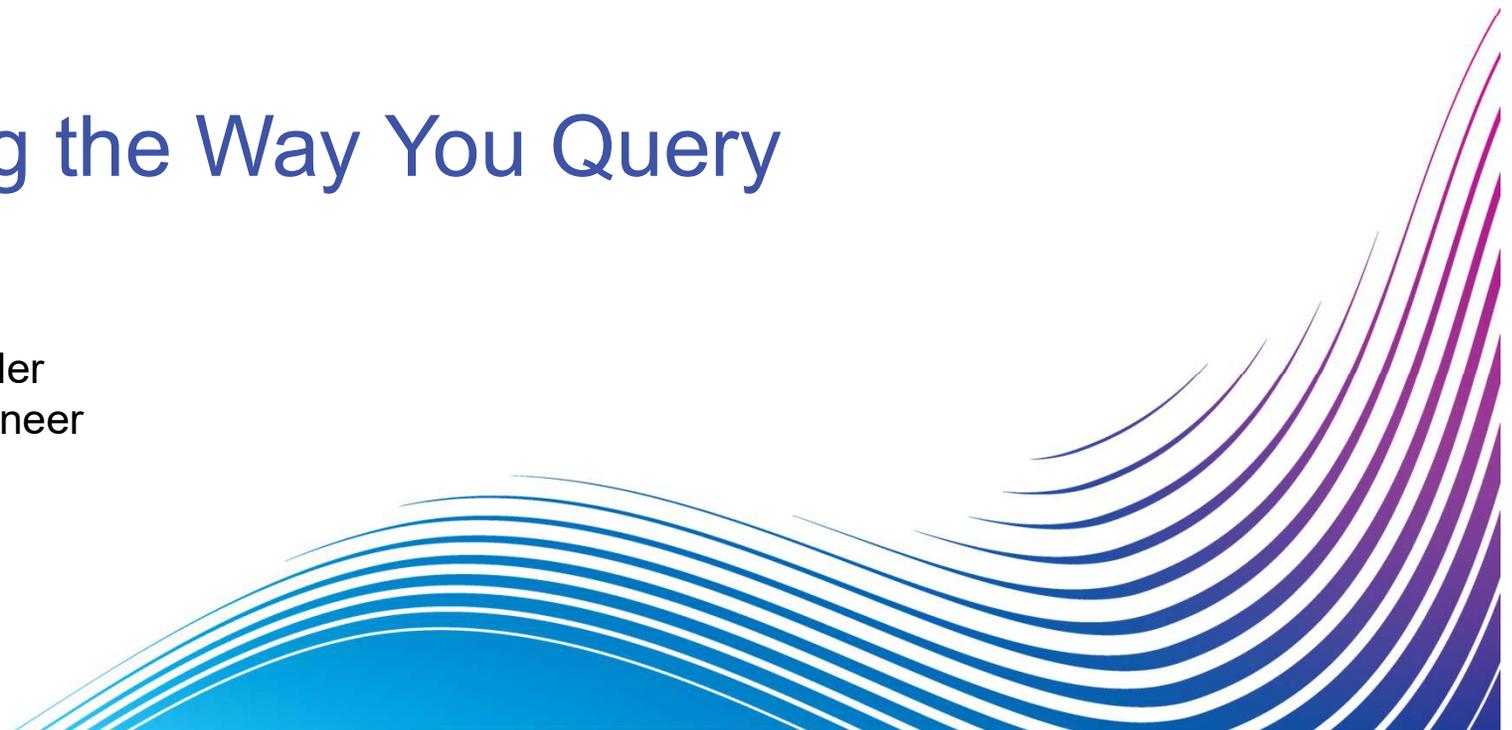
New

0



Improving the Way You Query

Peter Horsboll Moller
Distinguished Engineer



Two approaches

The syntax & functionality

```
Select expression_list
  From table_name [, ...]
[Where expression_group]
[Into results_table [Noselect] [Hide]]
[Group By column_list]
[Order By column_list]
```

The interface

SQL Select

Select Columns: Addresses.AddressKey, Addresses.ShortName, Addresses.StreetName, Addresses.HouseNo, Buildings.Zmin

from Tables: Addresses, Buildings

where Condition: Addresses.Obj Within Buildings.Obj

Group by Columns:

Order by Columns:

Into Table Named: Selection

Browse Results End Results In Current Map Window
 Add Results To Current Map Window

OK Cancel Clear Verify Help

Tables Columns Operators Aggregates Functions Save Template Load Template

<p>28 VOTE</p>	<p>Improved handling of * in SQL queries</p> <p>In most implementations of SQL it's possible to use the * wildcard alongside other calculated columns such as: Select *, Proper\$(st_name) "Label", ObjectLen(obj), "km") "st_length" From streets This query would return ALL columns which exist in t...</p> <p>Created about 1 year ago by nyall@zombiepigs.net MapInfo Pro</p> <p>Future Consideration</p>	<p>11 VOTE</p>	<p>Show sql statement on browser windows</p> <p>Hi, Sometime we have a lot of open browser windows, generated from different queries. It would be nice if we were able to see the actual sql statement that created the individual window. It could be appended to the titlebar, or it could be in an ex...</p> <p>Created about 1 year ago by Michael Sletved MapInfo Pro</p> <p>Future Consideration</p>	<p>5 VOTE</p>	<p>Multiple Query TABS within the SQL Select Window</p> <p>I find myself regularly using several common queries during particular everyday tasks. Would it be possible to give the SQL select dialog the ability to load/store/save several queries in separate TABS so the user can switch tabs to the query they wa...</p> <p>Created about 1 year ago by mjamieson@warwyn.tas.gov.au MapInfo Pro</p> <p>Future Consideration</p>
<p>9 VOTE</p>	<p>Find and Replace for SQL Select Dialog</p> <p>Add a find and replace function to the SQL Select dialog box to enable reusing a complex query for another table with a similar structure.</p> <p>Created about 1 year ago by michelle.cassidy@niwater.com MapInfo Pro</p> <p>Future Consideration</p>	<p>6 VOTE</p>	<p>Don't Close SQL window when query applied</p> <p>Sometimes I use an SQL query over and over again but only varying some value in the query. I would like the SQL Query window to stay open when I click OK so I can go to straight to the next query so that I don't have to go through opening it agal...</p> <p>Created about 1 year ago by steveking@solidgeology.com.au MapInfo Pro</p> <p>Future Consideration</p>	<p>26 VOTE</p>	<p>SQL query - Get unique values from a column</p> <p>When building a SQL query and setting the where clause, the possibility to "Get unique values" from a column is much needed. Illustration from another software:</p> <p>Created about 1 year ago by chbl@orbicon.dk MapInfo Pro</p> <p>Future Consideration</p>
<p>4 VOTE</p>	<p>Add a LIMIT option to SQL queries</p> <p>MapInfo/MapBasic is missing an option to limit the number of rows returned by a SQL query. Adding a clause to limit the number of results returned would be beneficial ESPECIALLY if the query stops processing as soon as this limit is reached. This...</p> <p>Created about 1 year ago by nyall@zombiepigs.net MapInfo Pro</p> <p>Future Consideration</p>	<p>1 VOTE</p>	<p>Not Carrying Forward the Geography when combining 2 tables through SQL</p> <p>When you combine 2 tables using SQL - If you need to save the Query to a permanent table, it is not necessary to carry forward any geographical objects. There should be an option in the SQL dialog to exclude any geographical objects L...</p> <p>Created about 1 year ago by Brumwell MapInfo Pro</p> <p>Future Consideration</p>	<p>8 VOTE</p>	<p>Multi-core utilisation for SQL select querying</p> <p>I often run queries on large amounts of points to locate them in varying zones and districts, problem is that even with dual, quad or hex core machines when it comes to SQL queries Mapinfo currently only uses one core for processing. This isn't a...</p> <p>Created about 1 year ago by oliversimons@detecqid.gov.au MapInfo Pro</p> <p>Future Consideration</p>
<p>40 VOTE</p>	<p>View the SQL syntax of a query result in the Table List and Layer Control</p> <p>When hovering over a query table in the Table List or Layer Control, show the SQL Syntax used to create the query as well as the path to the base table. It would also be good if the SQL syntax could be selected and copied to clipboard, eg:</p> <p>Created about 1 year ago by kalu.r.bush@transport.vic.gov.au MapInfo Pro</p> <p>Future Consideration</p>	<p>1 VOTE</p>	<p>Ability to Save a "Table - Update Column" command</p> <p>It would be nice to be able to save a "Table - Update Column" command the same way we can actually save a Select query or an SQL Select query. May be with an *upd or *upc extension (for UPDATE Column). Working with data mostly implies Selects ...</p> <p>Created about 1 year ago by louis.rousseau@mtq.gouv.qc.ca MapInfo Pro</p> <p>Future Consideration</p>	<p>7 VOTE</p>	<p>Select DISTINCT Value</p> <p>I would like MapInfo Professional to have the functionality to utilise the common SQL DISTINCT function. This would enable me to select distinct records with their geometries in one go. The only option is to group records thereby losing the map obj...</p> <p>Created about 1 year ago by sean.boyle@niwater.com MapInfo Pro</p> <p>Future Consideration</p>
<p>4 VOTE</p>	<p>Notify/Warn user when running a query on a query - query not saved in Workspace</p> <p>In a MapInfo session, it's possible to run an SQL query on another SQL query. The second query results are added to a Mapper, a thematic can be created on the query results, labels added, etc. But when the Workspace is saved, closed and reopened...</p> <p>Created about 1 year ago by kalu.r.bush@transport.vic.gov.au MapInfo Pro</p> <p>Future Consideration</p>	<p>1 VOTE</p>	<p>Query Auto Save for Re-use within session.</p> <p>The ability to remember the details of the last 'n' queries executed in the SQL query dialog rather than the single query. This would avoid the need to load saved queries or retype queries into the query dialog when the user is running s...</p> <p>Created about 1 year ago by mjamieson@warwyn.tas.gov.au MapInfo Pro</p> <p>Future Consideration</p>	<p>1 VOTE</p>	<p>Make Select Window dialog box dockable</p> <p>How about making the Select Window dialog box dockable with layer control and table list? Or at least making the list of windows sortable so that most recently used windows (including layouts) are listed at the top.</p> <p>Created about 1 year ago by lhay@searcherselmic.com MapInfo Pro</p> <p>Future Consideration</p>

5
VOTE

Improve the Query Dialog Boxes Capabilities

Query Dialog Boxes: Dialog boxes in MapInfo are small and difficult to browse. They lack intuitive a suggestive capabilities like what we find elsewhere in other packages. It seems that MapInfo progra are still thinking in the old days (sor...

Created about 1 year ago by A-Hafid Selougha
MapInfo Pro

Future Consideration

3
VOTE

Linked SQL based on queries - not only on base tables

When setting up a SQL command between two tables, both tables must be base tables. It would be nice to set up joined queries between queries (Views) too without having to save the result of the fir query as a base table before opening the n...

Created about 1 year ago by jk@envidan.dk
MapInfo Pro

Future Consideration

4
VOTE

Allow geographic objects & geographical aggregates in Group By

It's a huge limitation that Group By queries have no support for geographical objects. I'd love to see a few new aggregate functions added to MapInfo for group by queries, such as: "First()" - return the first geographical object encountered by th...

Created about 1 year ago by nyall@zombiepigs.net
MapInfo Pro

Future Consideration

1
VOTE

SQL Linking with rowid

It would be nice to be able to run queries like this: select * from table1,table2 where table1.rowid = table2.someid rowid is here the magic column (1,2,...), not an actual one.

Created about 1 year ago by uff@routeware.dk
MapInfo Pro

Future Consideration

1
VOTE

SQL select with two or more tables

I would like to be able to do a spatial select query of point objects which lie within more than one pc layer. The sticking point seems to be that, where the structures of the two polygon layers differ, the produces a data mismatch. eg: All...

Created about 1 year ago by Susan Beestlstone
MapInfo Pro

Future Consideration

3
VOTE

Improved SQL on multiple tables

In most database software, inner join, left join, right join and various joins between multiple tables is possible. In MI Pro it is only possible to build SQL queries in a sequential order from table 1 to table 2 to table 3 where there is a direct re...

Created about 1 year ago by jk@envidan.dk
MapInfo Pro

Future Consideration

2
VOTE

Add style override during Select/SQL process

It would be useful to be able to set the override style of selected objects from within the Select/SQL dialogs. This could be provided as an option whenever the 'add selection to the current map' che is selected. The benefit would be to co...

Created about 1 year ago by matthew.lee@dependsservices.com.au
MapInfo Pro

Future Consideration

7
VOTE

SQL table joins with improved performance

Using a table join in MapInfo can be VERY slow. As an example, this join in MapInfo based on 2 table ~50,000 records each may run for hours - even when the relevant fields are indexed: "Select * from where ID1 not In (Select ID2 From ...

Created about 1 year ago by jk@envidan.dk
MapInfo Pro

Future Consideration

3
VOTE

Enable BREAK in subqueries

When running a query with a subquery like: "Select * From Table1 Where ID In (Select ID From Table2 Group By ID) Into Result" It is not possible to break the operation if the performance is very slow. If a normal "Inner Join"-query has been issued...

Created about 1 year ago by jk@envidan.dk
MapInfo Pro

Future Consideration

17
VOTE

Refresh/re-run a query

It would be useful to be able to refresh/re-run a query without the existing result being removed fro mapper windows, browsers, etc. Very often I have a query results I've used in a mapper, and then I've changed the base data. It would be gre...

Created about 1 year ago by kaluribush@transportvic.gov.au
MapInfo Pro

Future Consideration

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VOTE

"Update column" should be able to update the obj column

It would be very useful if the Update Column tool was able to update the object column in a table. I frequently needing to copy the objects from one table to another, using a common id field as the join is partly because I'm working aroun...

Created about 1 year ago by nyall@zombiepigs.net
MapInfo Pro

Future Consideration

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VOTE

Where clause in table update

Can a where clause be added to the table update dialog box? At the moment when doing if I have to query out the records i need to update and then do the update on that query.

Created about 1 year ago by callumpeach1@gmail.com
MapInfo Pro

Future Consideration

The syntax & functionality

Table Alias:

```
Select a.Name From Addresses As a
```

Column Alias:

```
Select a.Name As OtherName From Addresses As a
```

All columns from a specific table

```
Select a.*, Area(Overlap(a.obj, z.obj), "sq m")  
From PopAreas As a, Zones As z Where a.obj Intersects z.obj
```

Cross Joins

```
Select Addresses.*, ObjectDistance(a.obj, z.obj, "m")  
From Addresses As a, Zones s z  
Where ObjectDistance(a.obj, z.obj, "m") Between 1 And 200
```

The syntax & functionality

Function Defines:

```
Select ObjectInfo(a.obj, OBJ_INFO_NPNTS) As Nodes  
From PopAreas As A
```

Where clause for Delete:

```
Delete From PopAreas Where Not OBJ
```

Where clause for Update

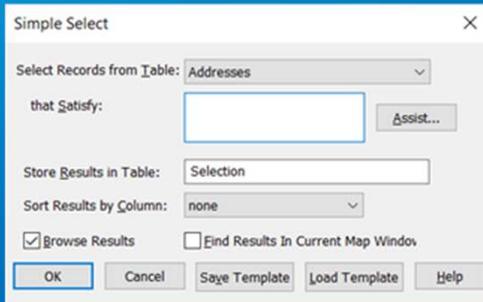
```
Update PopAreas Set Area_sqm = Area(obj, "sq_m") Where Area_sqm = 0
```

Spatial Aggregations

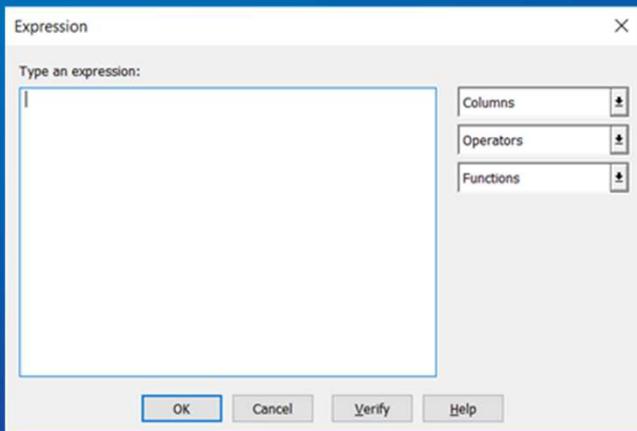
```
Select Type, Count(*) "NumRecords", AggregateUnion(OBJ)  
From PopAreas Group By Type
```

The interface

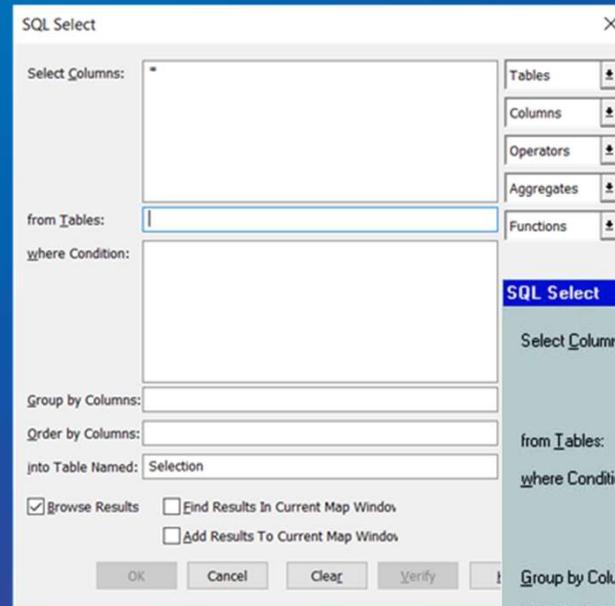
Version 17.0



Simple Select dialog box. Fields include: Select Records from Table: Addresses; that Satisfy: [empty]; Assist...; Store Results in Table: Selection; Sort Results by Column: none; Browse Results (checked); Find Results In Current Map Window (unchecked). Buttons: OK, Cancel, Save Template, Load Template, Help.

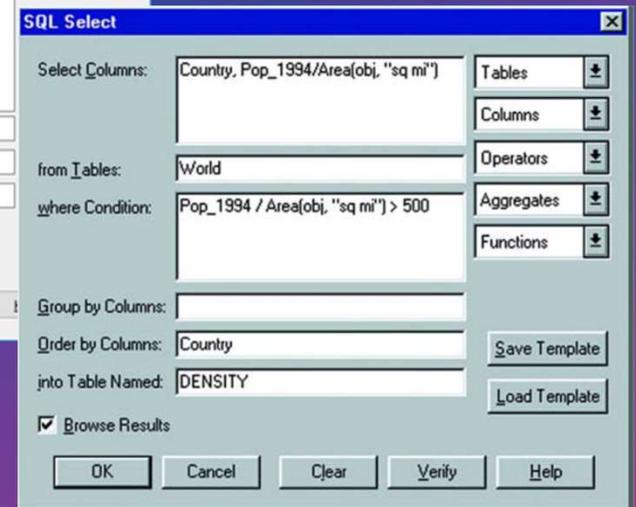


Expression dialog box. Type an expression: [empty]. Columns, Operators, Functions lists. Buttons: OK, Cancel, Verify, Help.



SQL Select dialog box. Fields include: Select Columns: *; from Tables: [empty]; where Condition: [empty]; Group by Columns: [empty]; Order by Columns: [empty]; into Table Named: Selection; Browse Results (checked); Find Results In Current Map Window (unchecked); Add Results To Current Map Window (unchecked). Buttons: OK, Cancel, Clear, Verify.

Version 8.0



SQL Select dialog box. Fields include: Select Columns: Country, Pop_1994/Area(obj, "sq mi"); from Tables: World; where Condition: Pop_1994 / Area(obj, "sq mi") > 500; Group by Columns: [empty]; Order by Columns: Country; into Table Named: DENSITY; Browse Results (checked). Buttons: OK, Cancel, Clear, Verify, Help, Save Template, Load Template.

Prototype

The screenshot shows a 'Query Builder' window with the following elements:

- Recent:** A dropdown menu showing 'Cadastré'.
- Table:** A dropdown menu showing 'Cadastré'.
- Sort:** A dropdown menu showing 'ELAVNAVN' followed by 'then' and another dropdown menu.
- Filters:** Two rows of dropdown menus for filtering.
- Sql:** A text area containing the SQL query:

```
Select *  
From Cadastré  
Into Selection  
Order By ELAVNAVN
```
- Right Panel:** A help panel with the title 'Title of help' and the text 'Learn how to build more complex sql statements'.
- Bottom Bar:** A 'Query Name' field containing 'Cadastré', an 'Output Table' field containing 'Selection', and an 'Execute' button.
- Status:** A green message 'Syntax is valid' is displayed at the top right of the window.

Prototype

The screenshot displays the 'Query Builder' application window. At the top, the title bar reads 'Query Builder'. Below it, a 'Recent' dropdown menu shows 'Cadastre'. The main interface is divided into several sections:

- Simple Assisted Advanced**: A tabbed interface with 'Simple' selected.
- Tables:** A dropdown menu showing 'Cadastre'.
- Columns:** A text input field containing 'ELAVNAVN, MAS_MATRNR'.
- Where:** A large empty text area for defining filters, with 'And' and 'Or' options on the right.
- Group By:** An empty text input field.
- Order By:** A dropdown menu showing 'ELAVNAVN'.
- Search:** A section with a 'Syntax is valid' status and a 'Tables and Columns' list. The list includes: KOMNR, KOMNAVN, ELAVSKODE, ELAVNAVN, MAS_MATRNR, MAS_VLITRA, LOD_ID, and SOGNNR.
- Suggestions:** A list of suggestions including 'ELAVNAVN' and 'ELAVNAVN = "Marienlund Hgd., Odense Jorder"'. Below this is a 'Values' list with entries: 'Marienlund Hgd., Odense Jorder', 'Næsbyhoved Mølle, Odense Jorder', 'Sømose, Odense Jorder', and 'Ålækkegård Hgd., Odense Jorder'.
- Functions Operators Aggregates:** A section with a 'Functions' tab selected, showing a list of functions: 'All Obj 123 str\$ Date', 'Abs', 'Area', 'Buffer', 'CartesianArea', 'CartesianDistance', 'CartesianObjectLen', and 'CartesianPerimeter'.
- Footer:** A 'Query Name:' field with 'Cadastre', a set of icons, an 'Output Table:' field with 'Selection', and an 'Execute' button.

Prototype

Query Builder

Recent: Cadastre

Syntax is valid

Simple Assisted Advanced

Select ELAVNAVN, MAS_MATRNR
From Cadastre
Into Selection
Order By ELAVNAVN

Cadastre.MAS_MATRNR
MAS_MATRNR

Search

Tables and Columns

- KOMNR
- KOMNAVN
- ELAVSKODE
- ELAVNAVN
- MAS_MATRNR
- MAS_VLITRA
- LOD_ID
- SOGNNR

Functions Operators Aggregates

All Obj 123 str\$ Date

- Abs
- Area
- Buffer
- CartesianArea
- CartesianDistance
- CartesianObjectLen
- CartesianPerimeter

Suggestions

- ELAVNAVN
- ELAVNAVN = "Marienlund Hgd., Odense Jorder"

Values

- Marienlund Hgd., Odense Jorder
- Næsbyhoved Mølle, Odense Jorder
- Sømose, Odense Jorder
- Åløkkegård Hgd., Odense Jorder

Query Name: Cadastre

Output Table: Selection

Execute