GELLO querying a database

GELLO can query a database. This example will show some some code that queries a database for a postcode based on a given locality. This page will then show it in use in an archetype.

Here is some code for this:

imports DB_Postcodes

Let retrievedSuburbName: String = 'Bray Park' -- this will be the entered Suburb or locality
Let retrievedStateName: String = 'NSW' -- this will be the entered State
Let postcodeTable: Sequence(TBL_csv) = csv
Let selectedRowOrRows: Sequence(TBL_csv) = postcodeTable->select((Suburb_locality = retrievedSuburbName)
and (State = retrievedStateName))
Let postcodeAsInteger: Integer = selectedRowOrRows.Postcode ->flatten()->last()
Let result: Real = postcodeAsInteger.oclAsType(Real)

result.toChar()

DB_Postocdes in this case is a csv file. The MO Gello Authoring tool will also load SQL Lite file and Firebird files. The package presents as a sequence of rows. Here is a screen shot of the simple structure of this example:

| | А | В | С | D |
|----|----------|--------------------------------|-------|---|
| 1 | Postcode | Suburb_locality | State | |
| 2 | 200 | Australian National University | ACT | |
| 3 | 221 | Barton | ACT | |
| 4 | 2540 | Jervis Bay | ACT | |
| 5 | 2540 | Hmas Creswell | ACT | |
| 6 | 2540 | Wreck Bay | ACT | |
| 7 | 2600 | Deakin | ACT | |
| 8 | 2600 | Canberra | ACT | |
| 9 | 2600 | Parkes | ACT | |
| 10 | 2600 | Parliament House | ACT | |
| 11 | 2600 | Harman | ACT | |
| 12 | 2600 | Deakin West | ACT | |
| 13 | 2600 | Capital Hill | ACT | |
| 14 | 2600 | Barton | ACT | |
| 15 | 2600 | Hmas Harman | ACT | |
| 16 | 2600 | Russell | ACT | |
| 17 | 2600 | Duntroon | ACT | |
| 18 | 2600 | Yarralumla | ACT | |
| 19 | 2601 | Canberra | ACT | |
| 20 | 2601 | Acton | ACT | |
| 21 | 2601 | City | ACT | |
| 22 | 2601 | Black Mountain | ACT | |
| 23 | 2602 | Watson | ACT | |

This is the import screen:

Configuration Editor - Medical-Objects Gello IDE (Client)

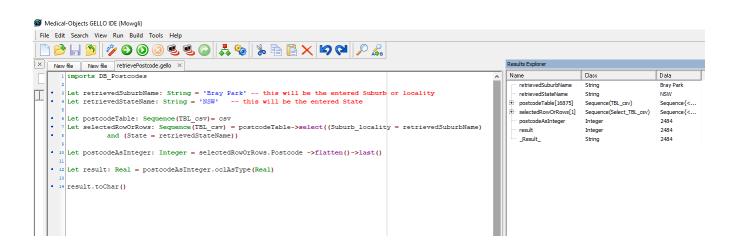
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| | Queries | Add Remove Modify |

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Configuration Editor - Medical-Objects Gello IDE (Client)

| Auto-Upgrade Gello SQL Setup | | Gello SQL Setup | | | | |
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| | | Country | | 28/11/2017 2:52 PM | Microsoft | |
| | Quick access | Postcode | | 28/11/2017 10:34 | Microsoft | |
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| | | File name: | Postcodes | • | Open | |
| | | Files of type: | CSV files (*.csv) | _ | Cancel | |
| | | | | | | |
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| | This PC | File name: | | | Open | Add Remove Modify |

Here is the code running:



The Suburb and the State can be captured from the UI of an archetype which runs this code in the onCalculate field for a Postcode Element:

| File Archetypes | Debug | | | | |
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| | | Definiti | | (TDefinition) | |
| | | ⊡ Descri | tion | (TDescription) | |
| | Preview Archetype | | | | - 0 |
| | Title | | ~ | | |
| | Given name | John | | | |
| | Middle name | | | | |
| | Family name | Smith | | | |
| | Sex | ◯ Female ④ Male ◯ Indeter | minate / Intersex | | |
| | Date of birth | 01/01/1978 15 | | | |
| | Street Address | 4 Demo St | | | |
| | Suburb, Town or City | Tweed Heads | ~ | | |
| | State | NSW | ~ | | |
| | Postcode | 2485 | | | |
| | Country | Australia | ~ | | |
| | Contact number | | | | |
| | | | | | |
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Here is the modified code that does this:

