Question
[Steve Pisani](#) · Feb 15, 2016

Retrieving last known record (based on a date) in series of logged events

Hi,

Given a log file with these records representing, hypotethically, the 'movements' or changes in residential city, for citizens, like this:

```
ID CitizenRef RelocationDate City Surname
...
48  1000  2015-04-01           Boston Smith
49  1000  2015-07-01           Seattle Smith
50  1000  2015-10-01           Boston Smith
51  1000 2016-01-15 NewYork Smith
...
...
```

Note - Smith (1000) lived in Boston, Seattle, and again in Boston (2015) and finally, in NewYork (2016). He has multiple entries in this log.

I want to perform analytics based on the citizens that are *currently* living in NewYork. To do this, I created a dimension 'IsLastKnownRecord', which is populated with the value "True" when processing a row that I know represents the last known movement for the citizen, and "False" otherwise. The sourceExpression for this dimension calls a query on the source table to determine this.

This way, to perform analytics based on a list of citizens that are currently in NewYork, (or other city for that matter) I merely have to include a filter where IsLastKnownRecord="true".

This seems to work, but I'm wondering if there is another (more elegant?) way of achieving the same result without creating a the dimension 'IsLastKnownRecord' in the cube, but instead, directly as part of the pivot table.

Thanks

Steve

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Source
URL:https://community.intersystems.com/post/retrieving-last-known-record-based-date-series-logged-events