

Article

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Execute an MDX query in the DeepSee Shell with/without results cache

The DeepSee Shell best Practices Series - Execute an MDX query in the DeepSee Shell with/without results cache

This cache is different from cache reset. Cache reset clears everything in the namespace but "cache off" only clears the cache in ^DeepSee.Cache.Results and ^DeepSee.Cache.Axis global node for the corresponding cube. The difference is quite smaller in the case as below, but in some cases it can be a big difference.

[^DeepSee.Cache.Results](#), which contains values for each query previously executed for a given cube. This global also contains meta-information about those queries that can be used to quickly rerun them.

[^DeepSee.Cache.Axis](#), which contains metadata about the axes of previously run queries. DeepSee uses this information whenever it needs to iterate through the axes of a given query.

```
>>cache
```

```
Cache is: off
```

```
>>SELECT {[Measures].[%COUNT],[Measures].[Allergy Count],[MEASURES].[MEDIAN TEST SCORE]} ON 0,NON EMPTY HEAD(NONEMPTYCROSSJOIN([AgeD].[H1].[Age Group].Members,[AgeD].[H1].[Age Bucket].Members),2000) ON 1 FROM [PATIENTS] %FILTER [GenD].[H1].[Gender].&[Female]
```

```
Patient Count Allergy Count Median Test Scor
```

```
1 0 to 29->0 to 9 69 45 73.50
```

```
2 0 to 29->10 to 19 74 47 75.50
```

```
3 0 to 29->20 to 29 80 56 68.00
```

```
4 30 to 59->30 to 3 82 43 77.00
```

```
5 30 to 59->40 to 4 75 49 75.00
```

```
6 30 to 59->50 to 5 58 43 68.00
```

```
7 60+>60 to 69 43 24 68.00
```

```
8 60+>70 to 79 24 16 70.50
```

```
9 60+>80+ 20 9 78.00
```

```
Elapsed time: .137912s
```

```
>>cache on
```

Cache is: on

```
>>SELECT {[Measures].[%COUNT],[Measures].[Allergy Count],[MEASURES].[MEDIAN TEST SCORE]} ON 0,NON EMPTY HEAD(NONEMPTYCROSSJOIN([AgeD].[H1].[Age Group].Members,[AgeD].[H1].[Age Bucket].Members),2000) ON 1 FROM [PATIENTS] %FILTER [GenD].[H1].[Gender].&[Female]
```

Patient Count Allergy Count Median Test Scor

```
1 0 to 29->0 to 9 69 45 73.50
2 0 to 29->10 to 19 74 47 75.50
3 0 to 29->20 to 29 80 56 68.00
4 30 to 59->30 to 3 82 43 77.00
5 30 to 59->40 to 4 75 49 75.00
6 30 to 59->50 to 5 58 43 68.00
7 60+-->60 to 69 43 24 68.00
8 60+-->70 to 79 24 16 70.50
9 60+-->80+ 20 9 78.00
```

Elapsed time: .029382s

>>cache off

Cache is: off

```
>>SELECT {[Measures].[%COUNT],[Measures].[Allergy Count],[MEASURES].[MEDIAN TEST SCORE]} ON 0,NON EMPTY HEAD(NONEMPTYCROSSJOIN([AgeD].[H1].[Age Group].Members,[AgeD].[H1].[Age Bucket].Members),2000) ON 1 FROM [PATIENTS] %FILTER [GenD].[H1].[Gender].&[Female]
```

Patient Count Allergy Count Median Test Scor

```
1 0 to 29->0 to 9 69 45 73.50
2 0 to 29->10 to 19 74 47 75.50
3 0 to 29->20 to 29 80 56 68.00
4 30 to 59->30 to 3 82 43 77.00
5 30 to 59->40 to 4 75 49 75.00
6 30 to 59->50 to 5 58 43 68.00
7 60+-->60 to 69 43 24 68.00
8 60+-->70 to 79 24 16 70.50
9 60+-->80+ 20 9 78.00
```

Elapsed time: .139437s

The DeepSee Shell Best Practices Series

[Run MDX queries in the DeepSee Shell](#)

[Get your MDX query performance stats from the DeepSee Shell](#)

[Reset your DeepSee cache in the DeepSee Shell](#)

[Execute an MDX query in the DeepSee Shell with/without results cache](#)

[Get your MDX query plan, MDX query trace and more from the DeepSee Shell](#)

[Example of using the MDX subquery flag in the DeepSee Shell](#)

[Debugging measures in the DeepSee Shell](#)

[#InterSystems IRIS Analytics \(DeepSee\) #MDX](#)

Source URL: <https://community.intersystems.com/post/execute-mdx-query-deepsee-shell-withwithout-results-cache>