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Article
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## Multidimensional Property Persistence - Part 2 (New Age)

While the classic solution followed rather close the concepts and design of the ancestors

Caché / IRIS allows a more modern approach to flexible/multidimensional properties

```
Let's see our demo class as before:
Class DC.Multi Extends (%Persistent, %Populate) [Final]
{
Property Name As %String;
Property DOB As %Date;
Property mJSON As %DynamicObject;
/// Property Multi As %String [MultiDimensional];
```

The JSON object allows us all the flexibility you may need with the key-value paradigm as a basic concept.

The storage map honors this with a suitable entry.

```
<DataLocation>^DC.MultiD</DataLocation>
<DefaultData>MultiDefaultData</DefaultData>
<IdLocation>^DC.MultiD</IdLocation>
<IndexLocation>^DC.MultiI</IndexLocation>
<StreamLocation>^DC.MultiS</StreamLocation>
<Type>%Storage.Persistent</Type>
}
```

Diagnosis: The storage generator has already foreseen the structure we had previously to add manually.

Issue #1) doesn't exist anymore

The same for issue #2) no extra fiddling for SQL. Access out of the box.

ID	DOB	Name	mJSON
1	08/07/1981	Braam,Ted Q.	{}
2	01/03/2012	Klingman,Uma C.	{"A":"ahahah","Rob":"VIP","Rob2":1111,"Rob3":true}
3	06/25/1966	Goldman,Kenny H.	{}

I admit, my fantasy for test data was rather limited.

So what's the price for this improvement?

Instead of: Set obj.Multi("robert")="rcc" it is now: Do obj.mJSON.%Set("robert","rcc")

a substructure comparable to obj.Multi("robert",1) might require a dynamic array

instead of navigation by \$order() and \$query() you now use an iterator and operate full JSON compatible.

retrieving data by set var=obj.Multi("robert") or similar changes to set var=obj.mJSON.%Get("robert")

Personally I find this a much cleaner approach and it is independent of registered or persistent objects

#Other

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