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### Discussion

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## Executing stored procedure through Python NativeAPI

I'm looking into finding ways to fetch data from cache efficiently and work with it with python - specially pandas.

i tried the following but i'm wondering if this is the most efficient way?

to run the stored procedure as %ResultSet inside cache in a classmethod and serialize the data to JSON

and then call that class method from python

```
Class User.RegObj Extends %RegisteredObject
{ ClassMethod runAlpha() As %Library.DynamicAbstractObject
{
set QHi=##class(%DynamicAbstractObject).%FromJSON( "{}" ) set rs=##class(%ResultSet).%New("User.Person:alpha")
set pr=rs.Execute( "", "" ) set idx=0
while rs.Next() {
set idx=$I(idx)
Set miniList=##class(%DynamicAbstractObject).%FromJSON( "{}" )
do miniList.%Set(1,rs.Data("name"))
do miniList.%Set(2,rs.Data("DB"))
do QHi.%Set(idx,miniList)
}
return QHi.%ToJSON()
} }
```

call from Python

```
>>> import irisnative as iris
>>> conn=iris.createConnection("127.0.0.1", 51773, "USER", "SYSTEM","SYS")
>>> wrk=iris.createIris(conn)
>>> print(wrk.classMethodValue("User.RegObj","runAlpha"))
{"1":{"1":"adel","2":"62116"}, "2":{"1":"adam,2019-01-01","2":"62116"}, "3":{"1":"nadam^2019-01-01","2":"62116"}, "4":{"1":"nadam:2019-01-01","2":"62116"}, "5":{"1":"madam","2":"62116"}, "6":{"1":"jadam","2":"62116"}, "7":{"1":"qadam","2":"62116"}}
```

the JSON can be further manipulated to a pandas dataframe.

#API #ObjectScript #Python #Caché #InterSystems IRIS

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