

Discussion

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Embedded SQL vs ObjectScript SQL. What do you prefer and why?

Hi Community!

There are two general ways to execute arbitrary SQL in serverside ObjectScript code: [EmbeddedSQL](#) and [ObjectScript SQL](#) a.k.a. Dynamic SQL.

E.g. if we want to get the value of the property of instance with a certain ID using SQL we can do:

```
&sql(SELECT Name INTO :name FROM Sample.Person WHERE ID=1)

write name
```

Same result with %SQL.Statement:

```
set rs=##class(%SQL.Statement).%ExecDirect(,"SELECT Name as name FROM Sample.Person w
here ID=1")
do rs.%Next()
write rs.name
```

Another typical task is to work through a set of records.

With Embedded SQL you do:

```
&sql(DECLARE C1 CURSOR FOR
      SELECT Name INTO :name
      FROM Sample.Person
      WHERE Age > 60
      ORDER BY Name)
&sql(OPEN C1)
      QUIT:(SQLCODE'=0)
&sql(FETCH C1)
WHILE (SQLCODE = 0) {
    WRITE name,!
    &sql(FETCH C1) }
&sql(CLOSE C1)
```

And with SQL.Statement you have:

```
set rs=##class(%SQL.Statement).%ExecDirect(,"SELECT Name as name FROM Sample.Person W
HERE Age > 60 ORDER BY Name ")

while rs.Next {

    write rs.Name,!
}
```

My preference is %SQL.Statement or New Dynamic SQL. Because it's more readable and not that wordy to work with resultsets.

What's your preference and why?

Good reads on this topic: [Old/New Dynamic SQL Cheat Sheet](#), [Class Queries in InterSystems Cache](#), Documentation on [Executing SQL](#)

[#SQL](#) [#Caché](#) [#InterSystems](#) [IRIS](#)

Source URL: <https://community.intersystems.com/post/embedded-sql-vs-objectsript-sql-what-do-you-prefer-and-why>