

---

Article

[Rubén Larenas](#) · Sep 7, 2021 4m read

## Scrollable ResultSet Pagination Sample

Hi everyone.

This is a full example how to use a [%ScrollableResultSet](#) for results pagination using %DynamicQuery:SQL and build a JSON response including page details.

Feel free to use, share, comment or improve it.

Kind Regards

```
ClassMethod getPersonsPag(iAge As %Integer, sortField As %String = 1, sortOrder As %String = 2, pageSize As %String = 20, pageIndex As %String = 1) As %DynamicObject
{
    set out = []
    set vFrom = ((pageIndex -1 ) * pageSize)+1
    set vTo = vFrom + (pageSize-1)

    set sql = "SELECT ID,SSN,LastName,GivenName,SecondaryName, Gender, Age "_
              "FROM Sample.Person WHERE Age > ? "_
              "Order By "_sortField "_" "$CASE(sortOrder,1:"ASC",2:"DESC",:"ASC")

    Set rs=##class(%ScrollableResultSet).%New("%DynamicQuery:SQL")
    set sc = rs.Prepare(sql)
    set sc = rs.Execute(iAge) If $$$ISERR(sc) Do DisplayError^%apiOBJ(sc) Quit

    if (rs.Count()=0) Quit {"msg" : "No Records Found"}

    Do rs.CurrRowSet(vFrom)
    if pageSize >= rs.Count() set pageSize = rs.Count()

    try{
        FOR i=1:1:pageSize{
            Do out.%Push({
                "index": (i),
                "pid": (rs.%Get("ID")),
                "ssn" : (rs.%Get("SSN")),
                "lastname" : (rs.%Get("LastName")) ,
                "givenname": (rs.%Get("GivenName")),
                "secondaryname": (rs.%Get("SecondaryName")) ,
                "gender": (rs.%Get("Gender")),
                "age": (rs.%Get("Age")) )
            })
            Do rs.%Next()
        }
    }
    catch(e){ }
    set outJson = []
    Do outJson.%Push({
        "pageSize":(pageSize),
```

```
        "pageIndex":(pageIndex),
        "fromIndex":(vFrom),
        "toIndex":(vFrom+i - 1),
        "resultSetTotal":(rs.Count()),
        "pageRecords":(i),
        "pages":($NORMALIZE((rs.Count()/pageSize),0)),
        "resultSet":(out)
    })
    return outJson
}
```

[#JSON](#) [#ObjectScript](#) [#SQL](#) [#InterSystems IRIS](#)

---

Source URL:<https://community.intersystems.com/post/scrollable-resultset-pagination-sample>