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## Article

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# Error Handling Techniques : Tips & Tricks

At least three different ways to process errors (status codes, exceptions, SQLCODE etc is given in ObjectScript. Most systems have status, but for a range of reasons exceptions are more convenient to manage. You spend some time translating between the various techniques dealing with legacy code. For reference, I use several of these excerpts. It is hoped that they will also support others.

```
///Status from SQLCODE:  
set st = $$$ERROR($$$SQLError, SQLCODE, $g(%msg)) //embedded SQL  
set st = $$$ERROR($$$SQLError, rs.%SQLCODE, $g(rs.%Message)) //dynamic SQL  
///Exception from SQLCODE:  
throw ##class(%Exception.SQL).CreateFromSQLCODE(SQLCODE,%msg) //embedded SQL  
throw ##class(%Exception.SQL).CreateFromSQLCODE(rs.%SQLCODE,rs.%Message)  
//dynamic SQL  
throw:(SQLCODE'=0)&&(SQLCODE'=100) ##class(%Exception.SQL).  
CreateFromSQLCODE(SQLCODE,%msg) //don't throw if query succeeds or finds no data  
///Exception from status:  
$$$ThrowOnError(st)  
///Status from exception:  
set st = err.AsStatus()  
///Creating a custom error status:  
set st = $$$ERROR($$$GeneralError,"Custom error message")  
///Throwing a custom exception:  
$$$ThrowStatus($$$ERROR($$$GeneralError,"Custom error message"))  
///Handling a SOAP error with a status:  
try {  
    //SOAP request code  
} Catch err {  
    If err.Name[ "ZSOAP" ] {  
        Set st = %objlasterror  
    } Else {  
        Set st = err.AsStatus()  
    }  
}  
return st  
///Defining a custom exception class  
Class App.Exceptions.SomeException Extends %Exception.AbstractException  
{  
Method OnAsStatus() As %Status  
{  
    return $$$ERROR($$$GeneralError,"Custom error message")  
}  
}  
}  
///Throwing and catching a custom exception  
try {  
    throw ##class(App.Exceptions.SomeException).%New()  
} catch err {  
    if err.%ClassName(1) = ##class(App.Exceptions.SomeException).%ClassName(1) {  
        //some handling unique to this type of exception  
    }  
}
```

```
}
```

[#ObjectScript](#) [#Ensemble](#)

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