
Question

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SQL PROCEDURE %sqlcontext for LANGUAGE PYTHON

So, I know that I can [return](#) a SQL Error message from my SQL Procedure written in ObjectScript, with code like this

```
$ cat <<EOF | irissqlcli iris://_SYSTEM:SYS@localhost:1972/USER
CREATE or REPLACE PROCEDURE test()
LANGUAGE OBJECTSCRIPT
{
  SET %sqlcontext.%SQLCODE = 400
  SET %sqlcontext.%ROWCOUNT = -1
  SET %sqlcontext.%Message = "test error message"
};

CALL test();

EOF
[SQLCODE: <-400>:<Fatal error occurred>]
[Location: <SPFunction>]
[%msg: <test error message>]
```

But I did not find how to do it with Python. I can't find %sqlcontext variable available there Obviously, I can raise an exception, but the real message is hardly reachable

```
$ cat <<EOF | irissqlcli iris://_SYSTEM:SYS@localhost:1972/USER
CREATE or REPLACE PROCEDURE test()
RETURNS %String
LANGUAGE PYTHON
{
  return "OK"
};

SELECT test() result;

CREATE or REPLACE PROCEDURE test()
RETURNS %String
LANGUAGE PYTHON
{
  raise Exception("some error")
  return "OK"
};

SELECT test() result;

EOF
result
OK
[SQLCODE: <-149>:<SQL Function encountered an error>]
[Location: <ServerLoop - Query Open(>)]
```

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```
[%msg: <SQL Function SQLUSER.TEST failed with error:  SQLCODE=-400,%msg=ERROR #5002:
ObjectScript error: %0AmBm3l0tudf^%sqlcq.USER.cls309.1^1^ *<class 'Exception'>: some
error - >]
```

[#Embedded Python](#) [#Python](#) [#InterSystems IRIS](#)

Product version: IRIS 2022.3

Source URL: <https://community.intersystems.com/post/sql-procedure-sqlcontext-language-python>