

???? ??????SQL???

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???SQL??

????????????SQL??SQL????????????SET????????????NEW????????
??NEW????????????????????????????????????SQL????????ROWID????????????ROWID??
????????????????????

- %msg
- %ROWCOUNT
- %ROWID
- SQLCODE

????????????Dynamic SQL????? ??????SQL Shell?Management Portal SQL?????Dynamic SQL?????Dynamic SQL???????????????

????SQL?????ObjectScript??SQL????????????SET?NEW????????
???
-\$TLEVEL
-\$USERNAME

????????InterSystems IRIS????SQL????????InterSystems IRIS????????SQL???????????????????

?????SQL????????procedureBlock = ON????????????????????????PublicList????????SQLCODE??ROWID??ROWCOUNT??
msg??SQL??

?????SQL????????????????????????????????????SQL?????msg??ROWCOUNT??ROWID?SQLCODE????????????????????????????????????
<FRAMESTACK>????????????????????NEW???

%msg

????????????????????????????????InterSystems
SQL?SQLCODE????????????????????????msg??SQLCODE???0?100???msg??????????????????

????????????Dynamic SQL ?Message????????????????????????????????????

????????????SQLCODE????????????????????msg????????????????SQLCODE???????? ?msg????????????????????????????????????ok
= 0??

???SQL????????????NLS????????????????????????NLS????????SQL????????????????NLS??????????\$
SYS.NLS.Locale.Language?

%ROWCOUNT

????????????????????

- INSERT?UPDATE?INSERT OR UPDATE?DELETE??ROWCOUNT?????????????????INSERT????????????? ?ROWCOUNT??0?1?INSERT?????UPDATE?DELETE?????????????????ROWCOUNT??0?????????
- ??????????????????TRUNCATE TABLE?????ROWCOUNT???-1?????????????????TRUNCATE TABLE??????COUNT?*??????DELETE???TRUNCATE TABLE??????????
- ???????SELECT?????????????????SELECT?????ROWCOUNT???1?????????????????0?????????????????
- DECLARE???CURSOR FOR SELECT??????ROWCOUNT? SELECT?????ROWCOUNT?????OPEN????????? ROWCOUNT?????????FETCH???ROWCOUNT?????????????????FETCH???ROWCOUNT = 0?????????ROWCOUNT = 0???FETCH?????????????????ROWCOUNT = 1?????????FETCH?????ROWCOUNT? CLOSE??FETCH??SQLCODE 100?????????????????ROWCOUNT?????????????

?SELECT??????Dynamic SQL?ROWCOUNT?????????????????0????????????????????????????

??SELECT?????????????????FETCH?????ROWCOUNT = 1?????????????????FETCH???SQLCODE = 0?????????FETCH??SQLCODE = 100?????????ROWCOUNT = 1?

?????SQL?????????????????FETCH?????????????????SQLCODE = 100?????ROWCOUNT?????????????

```

/// d ##class(PHA.TEST.SQL).ROWCOUNT()
ClassMethod ROWCOUNT()
{
    SET name="LastName,FirstName",state="##"
    &sql(DECLARE EmpCursor CURSOR FOR
        SELECT Name, Home_State
        INTO :name,:state FROM Sample.Person
        WHERE Home_State %STARTSWITH 'M')
    WRITE !,"BEFORE: Name=",name," State=",state
    &sql(OPEN EmpCursor)
    QUIT:(SQLCODE'=0)
    FOR {
        &sql(FETCH EmpCursor)
        QUIT:SQLCODE
        WRITE !,"Row fetch count: ",%ROWCOUNT
        WRITE " Name=",name," State=",state
    }
    WRITE !,"?????SQLCODE: ",SQLCODE
    &sql(CLOSE EmpCursor)
    WRITE !,"AFTER: Name=",name," State=",state
    WRITE !,"???????": ",%ROWCOUNT
}

```

```

DHC-APP>d ##class(PHA.TEST.SQL).ROWCOUNT()

BEFORE: Name=LastName,FirstName State=##
Row fetch count: 1 Name=O'Rielly,Chris H. State=MS
Row fetch count: 2 Name=Orwell,John V. State=MT
Row fetch count: 3 Name=Zevon,Heloisa O. State=MI
...
Row fetch count: 37 Name=Joyce,Elmo R. State=MO
Row fetch count: 38 Name=Jafari,Christine Z. State=MI
?????SQLCODE: 100
AFTER: Name=Jafari,Christine Z. State=OH

```

?????: 38

????SQL???UPDATE????????????

```

/// d ##class(PHA.TEST.SQL).ROWCOUNT1()
ClassMethod ROWCOUNT1()
{
    &sql(UPDATE Sample.Employee
        SET Salary = (Salary * 1.1)
        WHERE Salary < 50000)
    IF SQLCODE<0 {
        WRITE "SQLCODE error ",SQLCODE," ",%msg QUIT
    }
    WRITE "Employees: ", %ROWCOUNT,!
}

```

DHC-APP>d ##class(PHA.TEST.SQL).ROWCOUNT1()
Employees: 48

????????SQL????????????????ROWCOUNT????????ROWCOUNT????????????????Embedded
SQL????????????????SQL????????????????SQL????ROWCOUNT???

????????????????????ROWCOUNT????????????????????????????????????

```

/// d ##class(PHA.TEST.SQL).ROWCOUNT2()
ClassMethod ROWCOUNT2()
{
    TSTART // ????
    NEW SQLCODE,%ROWCOUNT,%ROWID
    &sql(UPDATE Sample.Employee
        SET Salary = (Salary * 1.1)
        WHERE Salary < 50000)
    IF SQLCODE<0 {
        WRITE "SQLCODE error ",SQLCODE," ",%msg QUIT
    }
    TROLLBACK // ?????;?????rowcount
    Write "Employees: ", %ROWCOUNT,!
}

```

DHC-APP>d ##class(PHA.TEST.SQL).ROWCOUNT2()
Employees: 37

????????UPDATE????????????ROWCOUNT???

%ROWID

????????????ROWID????NEW ?ROWID????ROWID???????? ?ROWID????????SQL????????????????????
????????ROWID????????????????????????SQL????????????????SQL????????????ROWID?

?ROWID????????????????RowID?

```
- INSERT?UPDATE?INSERT OR UPDATE?DELETE????????ROWID?????????RowID???ID????????????????????
????????????ROWID????????????????????????????????????RowID???ID????????????????????????????????ROWID????????????
TRUNCATE TABLE?????ROWID?
- ?????SELECT?DECLARE????CURSOR?OPEN????????????ROWID? ?ROWID?????????????????????FETCH???RO
WID?????????????FETCH????ROWID?????RowID?????FETCH????????????????????ROWID?????????????FROM?????????
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CLOSE??FETCH??SQLCODE 100????????????????????ROWID?????????????????RowID?
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??DISTINCT????GROUP BY?????????SELECT?????ROWID? ?ROWID?????????????????????????
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????????SELECT????????????????????ROWID?????????????????????????????????????FETCH??ROWID?????????????????????RowID?
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- ??????SELECT?????ROWID?????SELECT?????ROWID?????????

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?Dynamic SQL?????ROWID?????????????????????????????????RowID?????SELECT?????Dynamic SQL?????ROWID?????
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?????????????ObjectScript?????????ROWID?
```

```
DHC-APP> WRITE $SYSTEM.SQL.GetROWID()
213
```

```
???INSERT?UPDATE?DELETE?TRUNCATE TABLE???????SELECT?????LAST_IDENTITY
SQL?????????????????IDENTITY?????????????IDENTITY?????????????????????RowID?
```

SQLCODE

```
?????SQL?????????????????????????????SQLCODE?
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??SQLCODE = 0?????????????????????????????????????????
```

```
??SQLCODE = 100?????????????????????????????????????????
```

```
- ??????????????SQLCODE = 0?????????????????SQLCODE = 100????????????????????????????????????????? ?ROWCOUNT>
0?
```

```
- ?????????????????????????????????????????? ?ROWCOUNT = 0?
```

```
?????????????????????????????????????FETCH?????SQLCODE = 0??ROWCOUNT = 1?????????FETCH?SQLCODE =
100??ROWCOUNT = 1?????????????????????????????????????????????????????????????????????????????0?????????
```

```
??SQLCODE?????????????????????????????
```

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?????SQL?????????????????????SQL?????SQLCODE?????????????????SQLCODE?????????????????ok = 0?????????????????
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???SQL?????????SQLCODE?????SQL???????
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\$TLEVEL

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InterSystems SQL?$TLEVEL?????0?
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```
- ??START TRANSACTION?$LEVEL????1???START TRANSACTION???$TLEVEL???
```

```
- ??SAVEPOINT???$TLEVEL?1?
```

```
- ROLLBACK TO SAVEPOINT??????$TLEVEL????????????????????
```

```
- COMMIT?$LEVEL?????0?
```

```
- ROLLBACK?$LEVEL?????0?
```

???? ??????SQL???

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??????INTRANSACTION??????????????????

\$TLEVEL??ObjectScript?????????

\$USERNAME

SQL????InterSystems IRIS?????????ObjectScript \$USERNAME??

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

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