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

??

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

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

??SQL??

??SQL????????????SQL??????SQL???????SQL????????????SQL???????ODBC?JDBC????????InterSystems IRIS??????????????????????????SQL??????SQL??ObjectScript??????

??SQL???Dynamic SQL?????????????????????????????????Dynamic SQL???

??SQL?????SQL????????????SQL??????????SELECT???

??SQL????InterSystems IRIS SQL Shell?InterSystems IRIS??????"????"???SQL????????"???????????"?

?Dynamic SQL???????????????????3,641,144????

??SQL????SQL

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

- **??SQL????????????SQL??????????????????????SQL????SQL????????????????????????????????**
- ??SQL????????????????????"?"????????????????????:var?????SQL?????????????:var??
- ?????????Data????API????SQL???????SQL?????????var??SELECT???INTO???????????
- **??SQL???SQLCODE??Message??ROWCOUNT??ROWID????????SQL?????SQLCODE??msg??ROW COUNT??ROWID???????SQL???SELECT?????ROWID????SQL??????SELECT?????ROWID?**
- ??SQL?????????????????????????????
- ??SQL??SQL????????????????????????Embedded SQL???SQL?????
- ??SQL??????????????????????????????????SQL????????SQL????????????SQL????????????

??SQL????SQL???????????????????????????????NULL???

?SQL.Statement?

??SQL???????SQL.Statement??????????SQL???????SQL.Statement????????SQL????????SQL????????????SQL.StatementResult????? SQL???SQLCODE??Message ???????????????????????SQL?????????SELECT?????????????SQL.StatementResult??????????????????

??ObjectScript?????????SQL???

```
/// d ##class(PHA.TEST.SQL).DynamicSQL()
```

```
ClassMethod DynamicSQL()
{
    /* ????SQL.Statement?? */
    SET myquery = "SELECT TOP 5 Name,DOB FROM Sample.Person"
    SET tStatement = ##class(%SQL.Statement).%New()
    SET qStatus = tStatement.%Prepare(myquery)
    IF qStatus'=1 {
        WRITE "%Prepare ??"
        DO $System.Status.DisplayError(qStatus)
        QUIT
    }
    SET rset = tStatement.%Execute()
    DO rset.%Display()
    WRITE !,"End of data"
}
```

```
DHC-APP>d ##class(PHA.TEST.SQL).DynamicSQL()
Name    DOB
yaoxin  54536
xiaoli
??      63189
??      63189
??      50066

5 Rows(s) Affected
End of data
```

??????????SQL.Statement??SQL.StatementResult???????

????????

?????New????????SQL.Statement?????

SET tStatement = ##class(%SQL.Statement).%New()

??????????????SQL??????SQL.Statement??????????????????SQL???/?INSERT?UPDATE?DELETE???

?New?????????????????????

1. ?SelectMode????????????????????
2. ?SchemaPath?????????????????????????
3. ?Dialect????Transact-SQL?TSQL?Sybase?MSSQL???????IRIS?InterSystems SQL??

?????ObjectSelectMode???????????New????? ?ObjectSelectMode???????????????????

????ObjectScript?????SelectMode?2????????SchemaPath?"Sample"????????

```
  SET tStatement = ##class(%SQL.Statement).%New(2,"Sample")
```

????ObjectScript????????SelectMode?????????????SchemaPath??????????????????

```
SET tStatement = ##class(%SQL.Statement).%New(,"MyTests,Sample,Cinema")
```

?SelectMode??

?SelectMode???????????0 =Logical???????1 = ODBC?2
=Display.????????????????????????????????????List??????????????????????????

SELECT?????SelectMode?????????????

INSERT?UPDATE?????SelectMode??????????????

?SelectMode??????? SQL??????????????????SelectMode?????ORDER BY???????????????????
SQL????????????SelectMode????????SQLPROC????????????????SQL????????SQL????????????????

- ??SELECT????SelectMode??????????????SelectMode???ODBC?Display??????????????????????????????
  SelectMode?????????????????????SelectMode???
    - ?SelectMode = 1?ODBC???????????????????????ODBC????? InterSystems IRIS
      Time????????????ODBC TIME?????TIME_STRUCT?????????????? ODBC
      TIME???????????????? ADO DotNet?JDBC??????
    - ?SelectMode = 0???????List????????????????List?????????????????Dynamic
      SQL??List??????$LISTBUILD??????$lb("White","Green")? ?SelectMode =
      1?ODBC????List????????????????????????CollectionOdbcDelimiter??? ?SelectMode =
      2???List?????????????$ CHAR?10,13????????????????????????CollectionDisplayDelimiter???
- ??INSERT?UPDATE????SelectMode?????????????????????????????????RUNTIME??????????SQL?
  ???????INSERT?UPDATE???Display?ODBC ?SelectMode???????????????????????????

????SelectMode????New???????????????????????????????

```
SET tStatement = ##class(%SQL.Statement).%New(2)
```

```
SET tStatement = ##class(%SQL.Statement).%New()
SET tStatement.%SelectMode=2
```

????????SelectMode?????

```
/// d ##class(PHA.TEST.SQL).DynamicSQL1()
ClassMethod DynamicSQL1()
{
    SET tStatement = ##class(%SQL.Statement).%New()
    WRITE !,"??????=",tStatement.%SelectMode
    SET tStatement.%SelectMode=2
    WRITE !,"??????=",tStatement.%SelectMode
}
```

```
DHC-APP>d ##class(PHA.TEST.SQL).DynamicSQL1()

??????=0
??????=2
```

????$SYSTEM.SQL.Util.GetOption("SelectMode") ?????????SelectMode??????n???0 =???1 = ODBC?2 =
Display??????$SYSTEM.SQL.Util.SetOption("SelectMode",n)

??????????SelectMode????????SelectMode?????????????????????SelectMode???????

?SchemaPath??

?SchemaPath??SELECT?CALL?INSERT?TRUNCATE TABLE??????????DROP TABLE??????

??????????????????????????????????????? InterSystems IRIS??????????????? InterSystems IRIS???

?????????????????CURRENT_PATH?CURRENT_SCHEMA?DEFAULT_SCHEMA????
- CURRENT_PATH???????????????SchemaPath???????????????????????????????????
- ???SQL.Statement????????????CURRENT_SCHEMA?????????????????????????#SQLCompile Path?????CURRENT_SCHEMA??????????????CURRENT_SCHEMA?DEFAULT_SCHEMA???
- DEFAULT_SCHEMA???

?SchemaPath?InterSystems IRIS????????????????????SchemaPath?????????????????InterSystems IRIS?????????????

???????SchemaPath??????New?????????????????????????????????

```
  SET path="MyTests,Sample,Cinema"
  SET tStatement = ##class(%SQL.Statement).%New(,path)


  SET tStatement = ##class(%SQL.Statement).%New()
  SET tStatement.%SchemaPath="MyTests,Sample,Cinema"
```

????????Prepare??????????????SchemaPath?

????????SchemaPath?????

```
/// d ##class(PHA.TEST.SQL).DynamicSQL2()
ClassMethod DynamicSQL2()
{
    SET tStatement = ##class(%SQL.Statement).%New()
    WRITE !,"?? path=",tStatement.%SchemaPath
    SET tStatement.%SchemaPath="MyTests,Sample,Cinema"
    WRITE !,"?? path=",tStatement.%SchemaPath
}
```

```
DHC-APP>d ##class(PHA.TEST.SQL).DynamicSQL2()

?? path=
?? path=MyTests,Sample,Cinema
```

?????ClassPath??????SchemaPath?????????????????

```
/// d ##class(PHA.TEST.SQL).DynamicSQL3()
ClassMethod DynamicSQL3()
```

```
{
    SET tStatement = ##class(%SQL.Statement).%New()
    SET tStatement.%SchemaPath=tStatement.%ClassPath("Sample.Person")
    WRITE tStatement.%SchemaPath
}
```

```
DHC-APP>d ##class(PHA.TEST.SQL).DynamicSQL3()
Sample
```

%Dialect??

?Dialect????SQL?????????Sybase?MSSQL?IRIS?InterSystems SQL?? Sybase?MSSQL?????????Transact-SQL????SQL???

Sybase?MSSQL??????????SQL???????????SELECT?INSERT?UPDATE?DELETE?EXECUTE???????CREATE TABLE????????????????????????CREATE TRIGGER?DROP TRIGGER??????CREATE TRIGGER????????????????????????????????CREATE PROCEDURE?CREATE FUNCTION?

Sybase?MSSQL????IF?????? IRIS?InterSystems SQL??????????

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

????Dialect????New??

??New?????????Dialect?

```
/// d ##class(PHA.TEST.SQL).DynamicSQL4()
ClassMethod DynamicSQL4()
{
    SET tStatement = ##class(%SQL.Statement).%New(,,"Sybase")
    WRITE "???????=",tStatement.%Dialect
}
```

```
DHC-APP>d ##class(PHA.TEST.SQL).DynamicSQL4()
???????=Sybase
```

?????Dialect???

```
/// d ##class(PHA.TEST.SQL).DynamicSQL5()
ClassMethod DynamicSQL5()
{
    SET tStatement = ##class(%SQL.Statement).%New()
    SET defaultdialect=tStatement.%Dialect
    WRITE "??????=",defaultdialect,!
    SET tStatement.%Dialect="Sybase"
    WRITE "???????=",tStatement.%Dialect,!
    SET tStatement.%Dialect="IRIS"
    WRITE "?????????=",tStatement.%Dialect,!
}
```

```
DHC-APP>d ##class(PHA.TEST.SQL).DynamicSQL5()
??????=
```

```
???????=Sybase
?????????=iris
```

???DialectSet?????????Dialect??????????????

```
/// d ##class(PHA.TEST.SQL).DynamicSQL6()
ClassMethod DynamicSQL6()
{
    SET tStatement = ##class(%SQL.Statement).%New()
    SET tStatus = tStatement.%DialectSet("Sybase")
    IF tStatus'=1 {
        WRITE "%DialectSet ??:"
        DO $System.Status.DisplayError(tStatus) QUIT
    }
    WRITE "???????=",tStatement.%Dialect
}
```

```
DHC-APP>d ##class(PHA.TEST.SQL).DynamicSQL6()
???????=Sybase
```

?DialectSet???????Status????????1??????0???????????????????????????tStatus =
0????????????$$ISOK?tStatus?= 0????????

?ObjectSelectMode??

?ObjectSelectMode?????????????ObjectSelectMode =
0??????SELECT??????????????????????????????ObjectSelectMode =
1??SELECT????????????????????????????

?ObjectSelectMode????????SELECT??????????????????swizzleable???????ObjectSelectMode =
0??????????swizzleable???????????SQL??RowID????????????????ObjectSelectMode =
1???????????????????????????????? swizzling?

????ObjectSelectMode????New??????

????????ObjectSelectMode???????ObjectSelectMode????????ObjectSelectMode??

```
/// d ##class(PHA.TEST.SQL).DynamicSQL7()
ClassMethod DynamicSQL7()
{
    SET myquery = "SELECT TOP 5 %ID AS MyID,Name,Age FROM Sample.Person"
    SET tStatement = ##class(%SQL.Statement).%New()
    WRITE !,"?? ObjectSelectMode=",tStatement.%ObjectSelectMode
    SET tStatement.%ObjectSelectMode=1
    WRITE !,"?? ObjectSelectMode=",tStatement.%ObjectSelectMode
}
```

```
DHC-APP>d ##class(PHA.TEST.SQL).DynamicSQL7()

?? ObjectSelectMode=0
?? ObjectSelectMode=1
```

?????????????????????????ObjectSelectMode = 1???"?????????"????????????????????????

?SELECT???????????????????????ObjectSelectMode = 1? ?ObjectSelectMode????swizzle????SelectMode = 1?2?????????????????????????oref??????????

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

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