


# CDC???? ???InterSystems IRIS/Caché?Global?????SQL?????????

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[Qiao Peng](#) · ?? 29  ????? 8 ??

# CDC???? ???InterSystems IRIS/Caché?Global?????SQL?????????

????SQL?????SQL?????InterSystems  
IRIS/Caché?????Global?SQL?????SQL?????SQL?????  
????????????????

## ??Global?SQL?????

??InterSystems IRIS/Caché?????SQL?????Global?????Global?SQL?????  
?????SQL????SQL schema?????Global?

```
SELECT CC.SqlQualifiedNQ SQLTable, CS.parent Class, CS.DataLocation  
FROM %Dictionary.CompiledStorage CS, %Dictionary.CompiledClass CC  
WHERE CS.parent = CC.ID  
AND CC.SqlSchemaName= <schemaname>
```

??<schemaname>?SQL?Schema?; ????SQLTable?SQL???Class?????DataLocation?????Global???

## ?????Global?SQL?????????

InterSystems IRIS/Caché?????SQL?????InterSystems  
IRIS/Caché?????  
?????3????SQL?????Global????  
?????InterSystems IRIS/Caché?????SQL?????SQL????? InterSystems  
IRIS/Caché?????SQL?????  
?????Global?SQL?????

### 1. ??SQL??

??InterSystems IRIS/Caché?????SQL?????Global?SQL?????SQL?????  
????Caché?????Storage ???%Library.CacheStorage??InterSystems IRIS?????Storage  
???%Storage.Persistent?

????SQL???

```
SELECT CC.SqlQualifiedNQ as SQLTable, CS.parent as Class, CS.DataLocation  
FROM %Dictionary.CompiledStorage CS, %Dictionary.CompiledClass CC  
WHERE CS.parent = CC.ID  
AND CC.SqlSchemaName= <schemaname> AND type='%Library.CacheStorage'
```

```
??<schemaname>?SQL?Schema?????Schema??"_"???????  
Parent???SQL???????DataLocation?????Global???  
?Global?????????/Id???
```

????DDL????table?

```
Create table Demo.Mytable(name varchar(20), notes varchar(100))
```

```
?????SQL???DataLocation?Demo.MytableD???Journal?????Global?  
Demo.MytableD???????Demo.Mytable???????^Demo.MytableD(123),  
?????/Id???123?Demo.Mytable?????????SQL: SELECT name, notes from Demo.Mytable WHERE id =  
123 ????????????
```

## 2. ??????

```
??InterSystems IRIS/Caché?????????????Global?SQL?????????????????  
?????????????????????
```

```
Class Demo.Address Extends %SerialObject  
{  
Property Type As %String;  
Property City As %String;  
Property Street As %String;  
Property RoomNo As %String;  
}
```

```
Class Demo.Patient Extends %Persistent  
{  
Property Name As %String;  
Property Gender As %String;  
Property DOB As %Date;  
Property Addresses As list Of Demo.Address(SQLPROJECTION = "table", STORAGEDEFAULT =  
"array");  
}
```

```
?????????????????Demo.Patient?????????list?????????  
?????Demo.Address?????????????????????????????????????????????????????????Demo.Patient?Demo.Address?????????Global?????????  
?????????Demo.Patient?Global???
```

```
?????????????????????InterSystems  
IRIS/Caché?????????????SQL????????????????????????????????????????????????????????????????????????????????????????????
```

```
?????????????Addresses???SQLPROJECTION?STORAGEDEFAULT?????????Addresses?????SQL??
```

```
?????????????????SQL?????????  
?????Demo.Patient  
?????Demo.Patient_Addresses  
???SQL?Demo.Patient_Addresses?????????Demo.Address?????????????Patient?????????Addresses?????????Demo.A  
ddress?????????????SQL??
```

??SQL??

```
SELECT CC.SqlQualifiedNames as SQLTable, CS.parent as Class, CS.DataLocation
FROM %Dictionary.CompiledStorage CS, %Dictionary.CompiledClass CC
WHERE CS.parent = CC.ID
AND CC.SqlSchemaName= 'Demo'
```

???????????

SQLTable	Class	DataLocation
Demo.Patient	Demo.Patient	^Demo.PatientD
Demo.Patient_Addresses	Demo.Patient	

??SQL?Demo.Patient\_Addresses?????Global????????????Patient?Global???

?????????SQL????SQL?Demo.Patient\_Addresses???Global?????

```
SELECT CC.ID||'_'||CSD.Attribute as SQLTable, CS.parent as Class, CS.DataLocation, CS
D.Structure, CSD.Subscript
FROM %Dictionary.CompiledStorage CS, %Dictionary.CompiledClass CC, %Dictionary.Compil
edStorageData CSD
WHERE CS.parent = CC.Name
AND CS.ID1 = CSD.parent
AND CC.SqlSchemaName= 'Demo'
AND CC.ID||CSD.Attribute in (select parent from %Dictionary.CompiledStorage where D
ataLocation is null)
```

???????????

SQLTable	Class	DataLocation	Structure	Subscript
Demo.Patient_Addres	Demo.Patient	^Demo.PatientD	subnode	"Addresses"

ses  
??SQL?Demo.Patient\_Addresses?????Global ^Demo.PatientD????"Addresses"?????????Global??

^Demo.PatientD("Addresses")?????????SQL?Demo.Patient\_Addresses???????

??Global?????????

????

```
Class Demo.Patient Extends %Persistent
{
Property Name As %String;
Property Gender As %String;
Property DOB As %Date;
Property Addresses As list Of Demo.Address(SQLPROJECTION = "table", STORAGEDEFAULT =
"array");
Relationship Encounters As Demo.Encounter [ Cardinality = children, Inverse = Patient
];
}
```

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

```
Class Demo.Encounter Extends %Persistent
{
Property EncounterNo As %String;
```

```
Property VisitDate As %Date;
Relationship Patient As Demo.Patient [ Cardinality = parent, Inverse = Encounters ];
}
```

??SQL??

```
SELECT CC.SqlQualifiedNQ as SQLTable, CS.parent as Class, CS.DataLocation
FROM %Dictionary.CompiledStorage CS, %Dictionary.CompiledClass CC
WHERE CS.parent = CC.ID
AND CC.SqlSchemaName= 'Demo'
```

```
????????????
SQLTable                Class                DataLocation
Demo.Encounter          Demo.Encounter          {%PARENT}("Encounters")
Demo.Patient            Demo.Patient            ^Demo.PatientID
Demo.Patient_Addresses Demo.PatientAddresses
??SQL?Demo.Encounter???Global ^Demo.PatientID???" Encounters"????????Global
^Demo.PatientID("Encounters")????????SQL?Demo.Encounter??????
```

### 3. ??Global??

????Global????????????Global????????Global??SQL??????

????????????????Storage ???Caché??%CacheSQLStorage??InterSystems IRIS??%Storage.SQL?

????????%CacheSQLStorage?Caché???Demo.Department?

```
Class Demo.Department Extends %Persistent [ StorageStrategy = SQLStorage ]
{
Property Id As %Integer;
Property Name As %String;
Property Parent As Demo.Department;
Index MyId On Id [ IdKey ];
Storage SQLStorage
{
<SQLMap name="DataMap">
<Data name="Id">
<Delimiter>"^"</Delimiter>
<Node>"id"</Node>
<Piece>1</Piece>
</Data>
<Data name="Name">
<Delimiter>"^"</Delimiter>
<Node>"Name"</Node>
<Piece>1</Piece>
</Data>
<Data name="Parent">
<Delimiter>"^"</Delimiter>
<Node>"Parent"</Node>
<Piece>1</Piece>
</Data>
<Global>^MyDepartment</Global>
<RowIdSpec name="1">
<Field>Id</Field>
```

```

</RowIdSpec>
<Subscript name="1">
<Expression>{Id}</Expression>
</Subscript>
<Subscript name="2">
<Expression>"Dep"</Expression>
</Subscript>
<Type>data</Type>
</SQLMap>
<StreamLocation>^Demo.DepartmentS</StreamLocation>
<Type>%CacheSQLStorage</Type>
}
}

```

??????%CacheSQLStorage?%Storage.SQL?????????SQL?????????SQL????SQL????Global????

```

SELECT CC.SqlQualifiedNQ as sqltable,
CC.id as class, CSM._Global as DataLocation, CSM.Structure, CSMS.Name as subscript,CS
MS.Expression
FROM %Dictionary.CompiledStorage CS,
%Dictionary.CompiledClass CC,
%Dictionary.CompiledStorageSQLMap CSM,
%Dictionary.CompiledStorageSQLMapSub CSMS
WHERE CS.parent = CC.ID
AND CS.ID1 = CSM.parent
AND CSM.ID = CSMS.parent
AND CSM.Type='data'
AND CC.SqlSchemaName= <schemaname>

```

??<schemaname>?SQL?Schema???

???????????

SQLTable	Class	DataLocation	Structure	Subscript	Expression
Demo.Department	Demo.Department	^MyDepartment		1	{Id}
Demo.Department	Demo.Department	^MyDepartment		2	"Dep"
??SQL?Demo.Department??????^MyDepartment	??????2??????????????Id?????????????????"Dep"?				

????????^MyDepartment?????????Id?????SQL???????????????

```

SELECT * FROM Demo.Department WHERE id=?

```

??%CacheSQLStorage/%Storage.SQL?Storage???InterSystems IRIS/Caché?????Global?????????????????????SQL?????????Global?????SQL?????

??

?????????????InterSystems IRIS/Caché???SQL?????????????????????????????Global??SQL?????
??????SQL?????????Global????SQL?????????Dejournal
filter??global?????????SQL?????????????SQL?????????RowID?????SQL?????????????

?????????

??????/?????????????S?Global?????Global?????????????????SQL?????????

## CDC??

???CDC???????????

[1. CDC???? ???Dejournal Filter?InterSystems IRIS/Caché???Mirroring??CDC??](#)

[2. CDC???? ???Dejournaling filter routine?Caché???Shadow??CDC](#)

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

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