

# **Recital: Using C-ISAM Files**

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## **Using C-ISAM Files**

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## INTRODUCTION

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Recital Terminal Developer and the Recital Database and Mirage Application Servers support access to Informix compliant C-ISAM files.

Data access is achieved through a C-ISAM Bridge. This requires the creation of a Bridge file and an empty Recital table that has the same structure as the C-ISAM file.

## Creating the Recital Table

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Create a Recital table with the same structure as the C-ISAM file. The fields/columns in the structure file must exactly match the data type and length of those in the C-ISAM file. The Recital table will have one byte more in total record length due to the Recital record deletion marker.

To create the table, use the SQL CREATE TABLE command or the Recital Terminal Developer CREATE worksurface. The table should be given a '.str' file extension (rather than the default '.dbf') to signify that this is a structure file only.

Please see the end of this document for information on matching Informix and Recital data types

## Creating the Bridge File

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In Recital Terminal Developer, the Bridge File can be created using the CREATE BRIDGE worksurface. For Server clients, the Bridge File can be created with the SQL CREATE BRIDGE command.

### CREATE BRIDGE (SQL)

The CREATE BRIDGE SQL command defines and creates the bridge in one step:

e.g.

```
exec sql
CREATE BRIDGE cisamdemo.dbf
TYPE "CISAM"
EXTERNAL "cisamdemo.dat"
METADATA "cisamdemo.str"
ALIAS "cisamdemo";
```

//or

```
exec sql
CREATE BRIDGE cisamdemo.dbf
AS "TYPE=CISAM;EXTERNAL=cisamdemo.dat;METADATA=cisamdemo.str;ALIAS=cisamdemo";
```

## Using the Bridge

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The Bridge can now be used. To access the C-ISAM file, use the 'alias' specified in the Bridge definition.

e.g.

Select \* from cisamdemo

e.g.

- use cisamdemo
- edit

## Data Types

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<b>Informix</b>	<b>Recital</b>
Byte	Numeric
Char	Character
Character	Character
Date	Date
Datetime	Character
Decimal	Numeric
Double Precision	Float
Float	Real
16 Bit Integer	Short
Integer	Numeric
Interval	Character
32 Bit Long	Integer
Money	Numeric
Numeric	Numeric
Real	Numeric
Smallfloat	Numeric
Smallint	Numeric
Text	Unsupported
Varchar	Character

## C-ISAM RDD Error Messages

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The following errors relate to the use of the Recital CISAM Replaceable Database Driver (RDD). They can be received as an 'errno <expN>' on Recital error messages:

ERRNO()	Error Description
100	Duplicate record
101	File not open
102	Invalid argument
103	Invalid key description
104	Out of file descriptors
105	Invalid ISAM file format
106	Exclusive lock required
107	Record claimed by another user
108	Key already exists
109	Primary key may not be used
110	Beginning or end of file reached
111	No match was found
112	There is no "current" established
113	Entire file locked by another user
114	File name too long
115	Cannot create lock file
116	Memory allocation request failed
117	Bad custom collating
118	Duplicate primary key allowed
119	Invalid transaction identifier
120	Exclusively locked in a transaction
121	Internal error in journaling
122	Object not locked