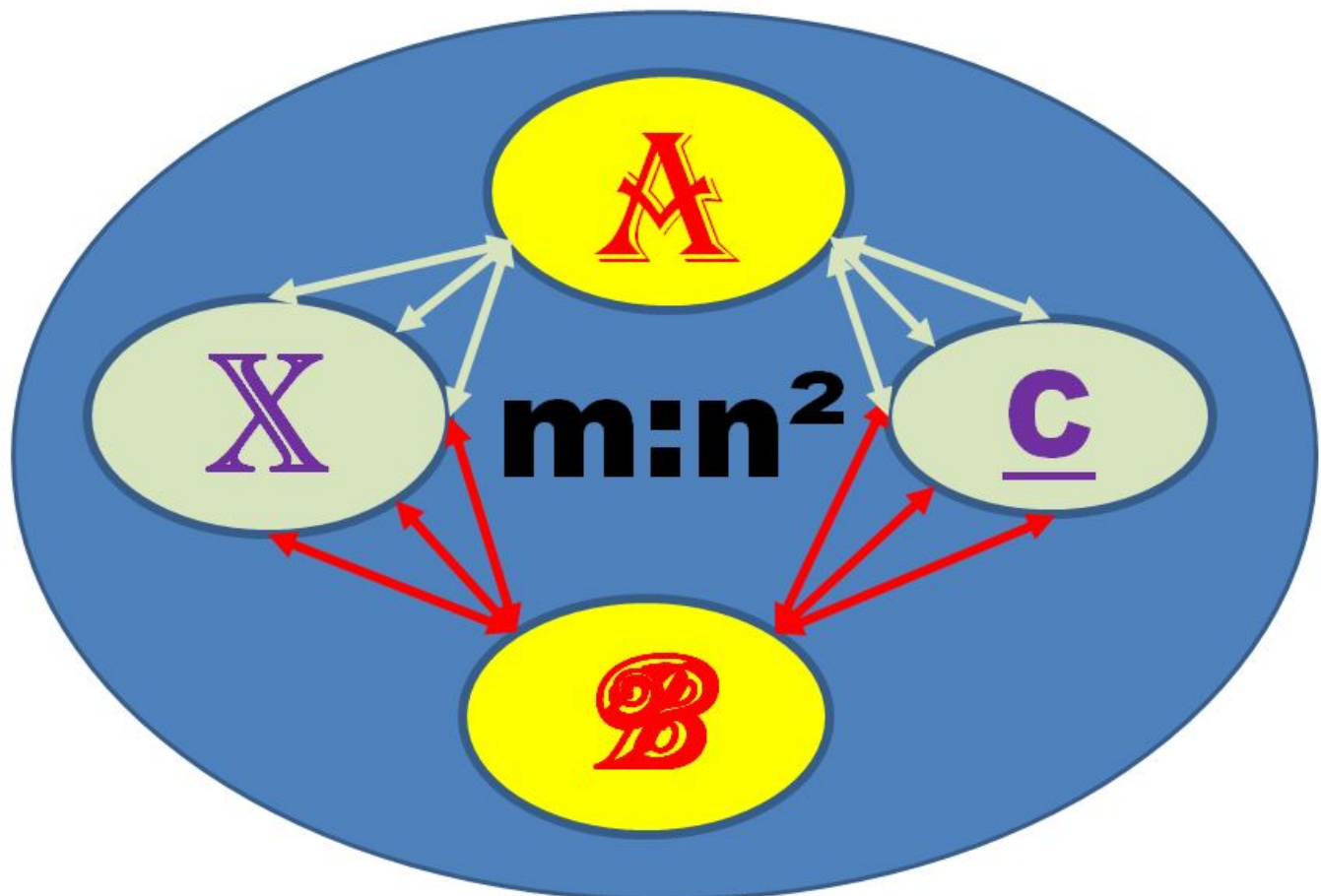


Article

[Robert Cemper](#) · May 14, 2022 8m read

M:N in Contest #2

Implementation



- B is the Winner Table: It holds the region and a numeric as ID. Short name is left empty for privacy protection in this Demo
- A is the table of all contests with dates
- X,C are the arrays of prizes. They are projected as SQL tables. When assigned they refer to 1 winner

User guide

Start the demo in Docker from IRIS console or in Webterminal

```
USER>do ##class(dc.rcc.Main).Menue()
```

You jump on top of fresh page

```
Welcome to OEX Contest Statistics
```

```
Select Contests, Prizes, Winners, Assign, Statistics, eXit (C,P,W,A,S,X) :
```

Contests, Prizes, Winners have the same maintenance functions and show the data status before and after processing.

Contest List, Edit, New, Delete, eXit (L,E,N,D,X) :
 Prizes List, Edit, New, Delete, eXit (L,E,N,D,X) :
 Winners List, Edit, New, Delete, eXit (L,E,N,D,X) :

List, Edit, Delete ask for additional IDs of the records processed.

A typical EDIT sequence for the actual Contest:

Select Contests, Prizes, Winners, Assign, Statistics, eXit (C,P,W,A,S,X) :c

Contest List, Edit, New, Delete, eXit (L,E,N,D,X) :e

Contest ID :24

ID	Start_Date	End_Date	Title
24	2022-05-09	2022-05-29	InterSystems Grand Prix 2022

1 Rows(s) Affected

Change Start_Date (ODBC Format)[2022-05-09] :

Change End_Date (ODBC Format)[2022-05-29] :

Change Title [InterSystems Grand Prix 2022] :

ID	Start_Date	End_Date	Title
24	2022-05-09	2022-05-29	InterSystems Grand Prix 2022

1 Rows(s) Affected

Assign also allows Remove or (implicitly) Overload assignment of a prize.

Select Contests, Prizes, Winners, Assign, Statistics, eXit (C,P,W,A,S,X) :A

Assign or Remove Winner (A,R) :a

Winner's region (as,br,eu,ru,us) :us

ID	Region	RegID	Short
us 1	us	1	?
us 2	us	2	?
us 3	us	3	?
us 4	us	4	?

4 Rows(s) Affected

Winner's RegID :4

Contest ID :5

ID	Cat	Rank	Value	WinrID	Short	Title
5	C	1	1000	br 1	?	InterSystems IRIS for Health FHIR
5	C	2	500	br 2	?	InterSystems IRIS for Health FHIR
5	X	1	1500	br 1	?	InterSystems IRIS for Health FHIR
5	X	2	1500	br 2	?	InterSystems IRIS for Health FHIR
5	X	3	500	br 5	?	InterSystems IRIS for Health FHIR

5 Rows(s) Affected

Category (C,X) :c Rank :1

ID	Cat	Rank	Value	WinrID	Short	Title
5	C	1	1000	br 1	?	InterSystems IRIS for Health FHIR

1 Rows(s) Affected

Assign Winner us||4 (Y,N) [N]:y

ID	Cat	Rank	Value	WinrID	Short	Title
5	C	1	1000	us 4	?	InterSystems IRIS for Health FHIR

1 Rows(s) Affected

Contest ID :

Statistics is a collection of pre-composed queries.

You can always select the Category displayed: (C=Community, X=eXperts, *=All)

In order to inspire you for your own queries, you can also display the SQL statement used.

Select Contests, Prizes, Winners, Assign, Statistics, eXit (C,P,W,A,S,X) :s

Prepared Statistics

- 1 - Total prizes by contest
- 2 - Total prizes by region
- 3 - Total prizes by winners
- 4 - Winner's ranking in contest
- 5 - Winner's Profile
- X - eXit

Select statistic [X]:2

Category (C=Community,X=eXperts,*=All) :*

Cat	Prizes	Value	Region
*	88	68170	br
*	40	42425	ru
*	27	19700	eu
*	13	15825	as
*	8	9000	us

5 Rows(s) Affected

Show SQL Statement (YN) [N] :y

```
SELECT LPAD(cat,3) Cat, LPAD(count(*),3) Prizes, Sum(val) Value, Region
FROM ( SELECT '*' Cat,
C_value val, C_winner->Region FROM dc_rcc.Contest_C
UNION ALL SELECT '*' Cat,
X_value val, X_Winner->Region FROM dc_rcc.Contest_X
) WHERE val>1 AND NOT Region IS NULL
GROUP BY Region ORDER BY 3 DESC
```

or

Prepared Statistics

- 1 - Total prizes by contest
- 2 - Total prizes by region
- 3 - Total prizes by winners
- 4 - Winner's ranking in contest
- 5 - Winner's Profile
- X - eXit

Select statistic [X]:5

Category (C=Community,X=eXperts,*=All) :c

Cat	Contest Best	Winner	Value	ConCnt	ContestList
-	RankList				- - - - -

C	1	1	ru 1	4750	7	1,11,13,16,21,22,23
	1,3,3,1,3,1,1					
C	1	1	br 4	1770	5	1,2,15,18,19
	2,2,1,3,1					
C	2	1	br 1	7250	11	2,5,6,7,9,10,12,13,14,17,18
	1,1,1,2,1,2,2,1,2,2,2					
C	3	1	br 5	1750	3	3,4,14
	2,1,4					
C	3	1	eu 3	1000	1	3
	1					
C	4	1	br 2	4500	10	4,5,9,10,12,13,14,18,21,23
	2,2,2,3,3,2,1,1,1,2					
C	4	1	br 3	2950	6	4,7,9,17,18,19
	3,1,3,1,4,2					
C	6	2	ru 2	1075	3	6,19,22
	2,3,2					
C	6	3	ru 8	250	1	6
	3					
C	7	3	eu 1	750	3	7,12,17
	3,4,3					
C	10	1	as 2	4000	2	10,11
	1,1					
C	11	2	as 3	1500	1	11
	2					
C	12	1	eu 2	750	1	12
	1					
C	13	4	br 6	250	1	13
	4					
C	14	3	ru 5	500	1	14
	3					
C	16	2	as 5	500	1	16
	2					
C	16	3	ru 3	250	1	16
	3					
C	21	2	as 1	1000	2	21,23
	2,3					
C	22	3	as 4	625	1	22
	3					

19 Rows(s) Affected

Show SQL Statement (YN) [N] :

Happy testing.

[GitHub](#)[Demo Video](#)[Demo Server SMP](#)[Demo Server WebTerminal](#)[#Other](#)Source URL:<https://community.intersystems.com/post/mn-contest-2>