Subject: override auto rdcaccount_id clause in a manually extended SQL
Posted by gpatti on Sun, 19 Apr 2009 15:07:05 GMT
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Tony,

In a _cm_getInitialDataMultiplefunction within a table class I have manually extended $this->sql_from and $this->sql_where to include data from a second table to achieve some desired functionality. Both the tables include the rdcaccount_id column.

I'm using getData_raw to retrieve the data.

Unfortunately this is now generating an ambiguous reference to rdcaccount_id (the table name is not explicitly stated in the generated SQL).

Can you give me a pointer to resolve this please?

Thanks,

Graham

Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by AJM on Sun, 19 Apr 2009 22:36:34 GMT
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When you say "ambiguous reference" what exactly do you mean? What is the generated statement?

Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by gpatti on Sun, 19 Apr 2009 23:37:20 GMT
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The error message displayed is: Fatal Error: MySQL error: 1052 - Column 'rdcaccount_id' in where clause is ambiguous (# 1052).
It's because I am joining to a 2nd table, and both tables contain rdcaccount_id, but the generated SQL has " AND rdcaccount_id in ('1', 'n')" as part of the WHERE clause. It would need to have " AND table_name.rdcaccount_id IN.."

Let me know if you need further info on how I have actually set up the $where clause, although the rdcaccount_id reference is being automatically added to the where clause by the framework. I can't see how I can change it.

Graham

Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by AJM on Mon, 20 Apr 2009 09:25:40 GMT
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Could you provide a copy of the actual SQL statement that was generated? I need to see exactly what the problem is.

Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by gpatti on Mon, 20 Apr 2009 12:51:38 GMT
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Because the error crashes the system the SQL is not written out to the log file. However, the following is written out to the screen:

Fatal Error: MySQL error: 1052 - Column 'rdcaccount_id' in where clause is ambiguous (# 1052).

SQL query: SELECT SQL_CALC_FOUND_ROWS * FROM exam, candidate WHERE exam.candidate_id = candidate.candidate_id AND candidate.active_ind = 'Y' AND candidate.exam_ind = 'Y' AND session_id = '12' AND branch_id='F' AND rdcaccount_id IN ('1', '7') ORDER BY exam.session_id, exam.syllabus_type_id, exam.branch_id

Error in line 466 of file 'C:\xampp\includes\dml.mysqli.class.inc'.

The transaction is an ADD4 pattern.

Please let me know if there is any further info I need to provide.

Graham

Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by AJM on Mon, 20 Apr 2009 15:03:18 GMT
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You need to modify the contents of the getData() and getData_raw() methods in your version of 'std.table.class.inc' so that the lines containing

$account_id_string = "rdcaccount_id='1'";
- and -
$account_id_string = "rdcaccount_id IN ('1', '$account_id')";

are changed to include the table name, as in:

$account_id_string = "$this->tablename.rdcaccount_id='1'";
- and -
$account_id_string = "$this->tablename.rdcaccount_id IN ('1', '$account_id')";

Let me know if this solves your problem.

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Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by gpatti on Mon, 20 Apr 2009 15:59:24 GMT
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That has resolved the crash due to the ambiguous reference, but I'm not getting the expected results now. However, that's more likely to be my coding! I'm going to spend some time testing and will get back to you if I require further assistance.

Thanks for your help resolving the initial problem.

Graham

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Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by gpatti on Mon, 20 Apr 2009 16:46:12 GMT
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Of course it WAS my coding - my SQL is a bit rusty and I was getting a cartesian product across the two tables. I needed to specify manually a join between the rdcaccount_id on each table. Everything working perfectly now.

Thanks again.

Graham

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Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by gpatti on Tue, 21 Apr 2009 12:57:53 GMT
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I am doing regression testing prior to releasing this change into my production environment and have come across a side effect. I'm not sure yet whether this is because my original code was not robust, or whether the change to std.table.class.inc has introduced a bug.

I have a couple of LIST1 transactions from which I make a selection before navigating to a child form. The child form access a table for which rdcaccount_id is part of the primary key (but the initial table does not use rdcaccount_id as it is shared data), and with the updated std.table.class.inc the error message

Primary key (rdcaccount_id) is not complete - check selection

is displayed.

Any ideas?

Graham

Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by AJM on Tue, 21 Apr 2009 13:15:56 GMT
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Are you saying that the table accessed by the child task is not the same as the table accessed by the LIST1 task? And that the child table contains rdcaccount_id as part of its primary key while the LIST1 table does not?

Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by gpatti on Tue, 21 Apr 2009 13:34:54 GMT
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Yes. I get the feeling you're gonna tell me that's not a good idea!

Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by AJM on Tue, 21 Apr 2009 13:45:17 GMT
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I'm just conducting a test with my development environment and I can see where this error is being generated. In the 'isPkeyComplete()' method it is looking for an entry with the name 'rdcaccount_id' and not finding it because it exists as '<tablename>.rdcaccount_id'. I am in the process of amending my code to deal with both possibilities. I will upload the fix shortly.

Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by AJM on Tue, 21 Apr 2009 14:11:09 GMT
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The attached file contains all the updates which will be in the next release, plus the fix for your problem. Try it out and see if it works.

File Attachments
1) radicore-2009-04-21-update.zip, downloaded 1910 times

Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by gpatti on Tue, 21 Apr 2009 15:07:34 GMT
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This version solves the problem as described. During testing I found another similar variation, which gave the primary key not complete error. This version solves the error but the transaction behaviour has changed.

The scenario is a LIST1 transaction using a table WITH rdcaccount_id in the primary key navigating to a LINK transaction linking to a table WITHOUT rdcaccount_id. The link table itself has rdcaccount_id and the primary key of the second table as its key.

Previously the form displayed all entries from the secondary table, with the linked rows marked as selected.

Now the form only displays the linked entries, so I've lost the ability to link and unlink entries.

I suspect the problem is as a result of the design of the keys I have used being impacted by the correction in the framework. I was linking to the outer table using ONLY rdcaccount_id because my application forces that only one entry can exist in the outer table per rdcaccount_id. I probably need to add another field as key (in fact I have, but didn't make any app changes as it worked ok).

If you think it might still be a bug in the framework please let me know. I'll hold off changing my app till you've had chance to consider it.

Graham

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Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by AJM on Thu, 23 Apr 2009 08:47:44 GMT
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I've found the problem. When constructing the SELECT statement for the LINK table it was adding an extraneous
AND <link_table>.rdcaccount_id='whatever'
to the WHERE clause. By removing it I got it to select the correct records. The attached file contains the fix.

File Attachments
1) std.table.class.zip, downloaded 1872 times

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Subject: Re: override auto rdcaccount_id clause in a manually extended SQL
Posted by gpatti on Thu, 23 Apr 2009 09:16:17 GMT
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Excellent thanks. That seems to work fine now.

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