Subject: convert_parent_id_to_child_id
Posted by pdv on Wed, 06 Feb 2019 19:18:32 GMT
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Hi,

I'm accessing some existing PostgreSQL databases on macos. Most of these have a primary key "id" whereas the foreign key is usually object_id; I know that it is preferred using the same name, but that's no option. Luckily include.library.inc contains a function convert_parent_id_to_child_id() to handle this particular case.

The function is called in std.table.class.inc, in the getData() function (line 2551 in the last version).

However for this to work properly the call to where2array($where, $this->pageno, false) a few lines higher should be called with the last parameter set to true.

Regards,

Patrick

Subject: Re: convert_parent_id_to_child_id
Posted by AJM on Thu, 07 Feb 2019 10:10:50 GMT
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Can you provide me with sample code which reproduces this problem so that I can test your solution?

Subject: Re: convert_parent_id_to_child_id
Posted by pdv on Thu, 07 Feb 2019 13:35:45 GMT
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Tony,

I have a simple one-to-many relationship like department(id,...) <-->> employee(id,department_id,...).
I inserted a button on the department(list1) to list the employee(list2).

So far so good but this returned nothing, although there are matching rows. When looking at the query:

```
SET search_path TO 'public';
SELECT count(*) FROM employee
   LEFT JOIN department ON (department.id=employee.department_id)
   WHERE employee.id= '1' AND employee.department_id= '1'
```

I conclude that the first employee.id in the WHERE clause should have been department.id and then both clauses are redundant.
By debugging the code I've found that in convert_parent_id_to_child_id a comparison was made between 'department' and "='department'". The latter contains the operator because where2array(....,false) was called.
With where2array(...,true) the proper WHERE clause is returned and it works.

Regards,

Patrick

Subject: Re: convert_parent_id_to_child_id
Posted by AJM on Fri, 08 Feb 2019 09:50:31 GMT
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Unfortunately your suggested fix will break existing applications. When I originally wrote the array2where() function it converted the string "field=value" into an associative array(field => value) which assumes that the operator is '='. In some cases I have to deal with WHERE strings where the operator is LIKE or BETWEEN or IN. This is why I added the extra argument to the where2array() function so that it will not strip the operators out so that they will be preserved when converting the array back into a string.

The correct fix is to strip the operators from the supplied value in the convert_parent_id_to_child_id() function before it is used. You can do this by changing
$fieldarray[$child_name] = $fieldarray['id'];
to
$fieldarray[$child_name] = stripOperators($fieldarray['id']);

Subject: Re: convert_parent_id_to_child_id
Posted by pdv on Sat, 09 Feb 2019 19:23:24 GMT
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My first idea was also to strip the operators but then I discovered the boolean parameter in the function call.
Since I didn't know the stripOperators() that looked easy.
Thanks.

Subject: Re: convert_parent_id_to_child_id
Posted by AJM on Sun, 10 Feb 2019 10:02:28 GMT
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The stripOperators() function is one of those functions available to the framework that only the framework should need to use.

Subject: Re: convert_parent_id_to_child_id
Posted by pdv on Sat, 23 Feb 2019 10:37:53 GMT
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I did not check this properly yet and now found out that it does not work.
I think one should strip the operators from all entries in $fieldarray.

I've put

$fieldarray = stripOperators($fieldarray);

at the beginning of the function convert_parent_id_to_child_id($fieldarray, $tablename, $parent_relations)

and that works.

Subject: Re: convert_parent_id_to_child_id
Posted by AJM on Sun, 24 Feb 2019 10:12:26 GMT
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I will change my code accordingly.