Subject: List2 with multiple parent relations to the same table
Posted by ikatz on Wed, 29 Oct 2008 18:18:30 GMT
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I have a table for organizations, and a table for vehicles. There are 3 links from the vehicle table to the organization table:

vehicle.manuf_organization_id ==> organization.organization_id
vehicle.owner_organization_id ==> organization.organization_id
vehicle.operator_organization_id ==> organization.organization_id

I am trying to set up a vehicle(list2) navigation button from my organization(list1) screen, so that the owner_organization_id is taken from the organization_id of the selected organization record.
The controller for the vehicle(list2) is using the aliased organization table:
$outer_table = 'owner_organization';
The organization details are correctly displayed at the top of the list2 page.

However, executing an add2 from this list2 transaction produces a "No parent has been selected yet."

I assume I need to do something to the controller file for either the vehicle(list2) or organization(list1) to make the translation between organization_id and owner_organization_id work. But what is it?

Subject: Re: List2 with multiple parent relations to the same table
Posted by AJM on Wed, 29 Oct 2008 19:04:03 GMT
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I suggest that you step through with your debugger to see what is causing the "No parent has been selected yet" message.

It sounds like the $where string which is being passed from the LIST2 to the ADD2 does not contain any data which can be used by the ADD2 task.

Subject: Re: List2 with multiple parent relations to the same table
Posted by ikatz on Wed, 29 Oct 2008 19:35:42 GMT
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It looks like the LIST2 is not getting the owner_organization_id either; the screen shows all the records from the vehicle table, not simply those associated with the selected organization.

```
Outer SQL:SELECT SQL_CALC_FOUND_ROWS
    organization.*,
    parent_organization.name as parent_organization_name
FROM organization
```

```
    LEFT JOIN organization AS parent_organization
      ON (parent_organization.organization_id=organization.parent_organization_id)
WHERE ( organization.organization_id='2' )
ORDER BY organization.name asc
LIMIT 1
OFFSET 0
Inner SQL:
SELECT SQL_CALC_FOUND_ROWS
   vehicle.*,
   manuf_organization.name AS organization_name,
   owner_organization.name AS owner_organization_name,
   operator_organization.name AS operator_organization_name
FROM vehicle
   LEFT JOIN organization AS manuf_organization
      ON (manuf_organization.organization_id=vehicle.manuf_organization_id)
   LEFT JOIN organization AS owner_organization
      ON (owner_organization.organization_id=vehicle.owner_organization_id)
   LEFT JOIN organization AS operator_organization
      ON (operator_organization.organization_id=vehicle.operator_organization_id)
LIMIT 25
OFFSET 0
```

Where does the inner sql statement of vehicle(list2) get the owner_organization_id field from -- the outer sql statement of vehicle(list2), or the data posted from organization(list1)?

Subject: Re: List2 with multiple parent relations to the same table
Posted by AJM on Wed, 29 Oct 2008 20:00:28 GMT
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The $where clause of the outer entity in the LIST2 is supplied by the task from which the LIST2 was activated. This is used to retrieve a row from the outer entity (there may be multiple rows, but only one can be current at any one time). The primary key of the current row in the OUTER entity is then extracted into another $where string and passed to the inner entity.

When you press the ADD2 button in a LIST2 task the $where string which was input into the outer entity is passed into the AD2 task.

Subject: Re: List2 with multiple parent relations to the same table
Posted by ikatz on Wed, 29 Oct 2008 22:42:03 GMT
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OK. In this case, the important field in $where that is passed to my LIST2 is called "organization_id", which is different from the name of the field it relates to ("owner_organization_id").

Does Radicore convert the field name in $where automatically -- based on the relationships defined in the .dict file -- or do I need to do it myself somewhere?

Subject: Re: List2 with multiple parent relations to the same table
Posted by AJM on Wed, 29 Oct 2008 23:07:55 GMT
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Radicore cannot translate any field names passed in the WHERE string between one object and another as there is no way of knowing which relationship is involved. Relationship details are only used when building an SQL statement. See FAQ129 for details.

You will need to translate the field name yourself. There is an example in the MENU system in the _cm_pre_getData() method of class mnu_menu.class.inc.

Subject: Re: List2 with multiple parent relations to the same table
Posted by ikatz on Thu, 30 Oct 2008 15:51:15 GMT
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PERFECT!

I added a _cm_pre_getData function to my vehicle class and everything works as expected:

```
    function _cm_pre_getData ($where, $where_array, $fieldarray=null)
    // perform custom processing before database record(s) are retrieved.
    // (WHERE is supplied in two formats - string and array)
    // $fieldarray may contain full details of the current record in the parent
    // class, not just its primary key.
    {
        $pattern_id = getPatternId();
        switch (strtolower($pattern_id)) {
            // may need to change the contents of $where
            case 'list2':
                // alter key
                $where = str_replace('organization_id=', 'owner_organization_id=', $where);
                break;

            default:
        } // switch

        return $where;

    } // _cm_pre_getData
```
