

## Database - Bug #2577

### extent information in meta table

05/18/2015 12:38 PM - Ovidiu Maxiniuc

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Eric Faulhaber	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Cleanup and Stablization for Server Features	<b>case_num:</b>	
<b>billable:</b>	No	<b>version:</b>	
<b>vendor_id:</b>	GCD		
<b>Description</b>			

### History

#### #1 - 05/18/2015 12:54 PM - Ovidiu Maxiniuc

- File *om\_upd20150518b.zip* added

I discovered that the extent information is missing in the field meta table (it's always 0). This causes some testcases to fail because when the customer server code will attempt to check if the field is valid (ex: `schedule[2]` of table `Person` from `p2j_test`) against the `*_meta` tables.

```
FIND _File NO-LOCK WHERE _File._file-name = "Person" NO-ERROR.  
MESSAGE CAN-FIND (FIRST _Field OF _File  
WHERE _Field._Field-name = "schedule"  
AND _Field._Extent >= 2).
```

After some investigations I realized that there is no support for extent attribute in the `<persistent-database>.meta.xml` bundle file. After adding the correct node in the generated DOM, the `MetadataManager` is able to initialize the meta database correctly and my testcase works fine.

I am not able to test this against the customer server code because it need to be re-converted.

Please review the attached update that should fix this issue.

#### #2 - 05/18/2015 02:10 PM - Eric Faulhaber

Code review 0518b:

The fix looks fine. Please check it in as is, no regression testing needed (it is additive and is not used in the regression test environment).

Separately, please ensure this works when the following hint is used in `p2j_test.schema.hints`:

```
<table name="person">  
  <custom-extent/>  
</table>
```

**#3 - 05/18/2015 03:16 PM - Ovidiu Maxiniuc**

Committed to bzt as revno 10865.

I've just checked the custom-extent support. As you thought, it doesn't work. The message displays no - the field is not valid.

There is one annoying thing, that when RecordBuffer.toString() is called automatically in debugger, it iterates all getters and the console gets full of stack traces (the old extent methods are disabled and will throw UnsupportedOperationException), but this is off-topic of this task.

**#4 - 05/18/2015 03:51 PM - Eric Faulhaber**

- Target version set to Milestone 11

- Priority changed from Normal to Low

Ovidiu Maxiniuc wrote:

I've just checked the custom-extent support. As you thought, it doesn't work. The message displays no - the field is not valid.

At minimum, we have to roll back Vadim's rev. 10500 in metaschema.xml. Any 4GL code that is using the metadata will know nothing about the "new" fields; they don't belong in the metadata. It must appear to be the original schema metadata. I didn't think carefully enough about this when I reviewed that update.

The problem is, when denormalized fields exist, the source AST for metaschema.xml is different than the original, since the extent fields have been exploded by the time we walk the AST, so the metadata will be wrong altogether. We need to adjust for that, so the metadata looks like the original schema. Perhaps the first exploded field needs to have some special annotations to convey the original name/size, while the remaining exploded fields are annotated to be ignored for metaschema purposes?

Not sure, but we may need changes in DMO field annotations as well. If so, this has to be done carefully; there probably are other dependencies on any changes introduced there.

I'm setting this to low priority for the moment -- we have to get it done, but there are other issues to address first, and I'm not sure which of us should address this.

**#5 - 07/31/2015 03:05 PM - Eric Faulhaber**

- Assignee changed from Ovidiu Maxiniuc to Eric Faulhaber

- Priority changed from Low to Normal

**#6 - 03/20/2016 01:45 PM - Eric Faulhaber**

- Status changed from New to Closed

- % Done changed from 0 to 100

This issue was resolved in P2J trunk rev. 10977.

**#7 - 11/16/2016 12:06 PM - Greg Shah**

- Target version changed from Milestone 11 to Cleanup and Stabilization for Server Features

## Files

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om_upd20150518b.zip	4.28 KB	05/18/2015	Ovidiu Maxiniuc
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