

EDIT - bug #7756

org.hibernate.QueryException in portal/taxon/{uuid}/subtree/media.json webservice related to relation direction param in prepareTaxonRelationshipQuery()

09/12/2018 03:44 PM - Andreas Kohlbecker

Status:	Feedback	Start date:	
Priority:	Highest	Due date:	
Assignee:	Andreas Müller	% Done:	80%
Category:	cdmlib	Estimated time:	0:00 hour
Target version:	Release 5.3	Found in Version:	
Severity:	normal		
Description			
http://api.cybertaxonomy.org/corvidae/portal/taxon/147cb0d4-0f0e-4ba4-a234-e0b55d51677a/subtree/media.json?type=ImageFile&relationships=831fcd88-e5c9-49e0-b06e-bbb67d1c05c9&relationshipsInvers=&includeTaxonDescriptions=1&includeOccurrences=1&includeTaxonNameDescriptions=			
throws the exception:			
...			
Caused by: org.hibernate.QueryException: could not resolve property: null of: eu.etaxonomy.cdm.model.taxon.TaxonRelationship [SELECT rel FROM eu.etaxonomy.cdm.model.taxon.TaxonRelationship rel WHERE rel.null = :relatedTaxon]			
at org.hibernate.QueryException.generateQueryException(QueryException.java:120)			
at org.hibernate.QueryException.wrapWithQueryString(QueryException.java:103)			
at org.hibernate.hql.internal.ast.QueryTranslatorImpl.doCompile(QueryTranslatorImpl.java:218)			
at org.hibernate.hql.internal.ast.QueryTranslatorImpl.compile(QueryTranslatorImpl.java:142)			
at org.hibernate.engine.query.spi.HQLQueryPlan.<init>(HQLQueryPlan.java:115)			
at org.hibernate.engine.query.spi.HQLQueryPlan.<init>(HQLQueryPlan.java:76)			
at org.hibernate.engine.query.spi.QueryPlanCache.getHQLQueryPlan(QueryPlanCache.java:150)			
at org.hibernate.internal.AbstractSessionImpl.getHQLQueryPlan(AbstractSessionImpl.java:302)			
at org.hibernate.internal.AbstractSessionImpl.createQuery(AbstractSessionImpl.java:240)			
at org.hibernate.internal.SessionImpl.createQuery(SessionImpl.java:1894)			
at eu.etaxonomy.cdm.persistence.dao.hibernate.taxon.TaxonDaoHibernateImpl.getTaxonRelationships(TaxonDaoHibernateImpl.java:1045)			
at eu.etaxonomy.cdm.api.service.TaxonServiceImpl.collectRelatedTaxa(TaxonServiceImpl.java:572)			
at eu.etaxonomy.cdm.api.service.TaxonServiceImpl.listRelatedTaxa(TaxonServiceImpl.java:538)			
at eu.etaxonomy.cdm.api.service.TaxonServiceImpl.listMedia(TaxonServiceImpl.java:769)			
at sun.reflect.GeneratedMethodAccessor25044.invoke(Unknown Source)			
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)			
at java.lang.reflect.Method.invoke(Method.java:498)			
at org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection(AopUtils.java:302)			
at org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint(ReflectiveMethodInvocation.java:190)			
at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:157)			
at org.springframework.transaction.interceptor.TransactionInterceptor\$1.proceedWithInvocation(TransactionInterceptor.java:99)			
at org.springframework.transaction.interceptor.TransactionAspectSupport.invokeWithinTransaction(TransactionAspectSupport.java:281)			
at org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInterceptor.java:96)			
at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:179)			
at org.springframework.aop.framework.JdkDynamicAopProxy.invoke(JdkDynamicAopProxy.java:208)			
at com.sun.proxy.\$Proxy4291.listMedia(Unknown Source)			
at eu.etaxonomy.cdm.remote.controller.TaxonPortalController.getMediaForTaxon(TaxonPortalController.java:635)			
at eu.etaxonomy.cdm.remote.controller.TaxonPortalController.doGetSubtreeMedia(TaxonPortalController.java:587)			
at sun.reflect.GeneratedMethodAccessor25041.invoke(Unknown Source)			
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)			

```
at java.lang.reflect.Method.invoke(Method.java:498)
at org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(InvocableHandlerMethod.java:222)
at org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:137)
at org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:110)
at org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:814)
at org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:737)
at org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(AbstractHandlerMethodAdapter.java:85)
at org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:959)
at org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:893)
at org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:969)
... 61 more
...
```

Related issues:

Related to EDIT - task #3560: Withheld unpublished taxa from webservice used ...

Resolved

Associated revisions

Revision 273b0cdc - 09/12/2018 03:46 PM - Andreas Kohlbecker

fix #7756 allowig direction to be null again

History

#1 - 09/12/2018 03:44 PM - Andreas Kohlbecker

- Related to task #3560: Withheld unpublished taxa from webservice used in E+M dataportal added

#2 - 09/12/2018 03:45 PM - Andreas Kohlbecker

the bug was introduced by the [e08838f0](#) for [#3560](#)

#3 - 09/12/2018 03:46 PM - Andreas Kohlbecker

- Status changed from New to Resolved

- % Done changed from 0 to 50

Applied in changeset [cdmlib|273b0cdc0b621b1a4314631f83bf9bba9491f9ea](#).

#4 - 09/12/2018 09:29 PM - Andreas Kohlbecker

- Status changed from Resolved to Closed

- % Done changed from 50 to 100

#5 - 09/13/2018 12:38 PM - Andreas Müller

- Status changed from Closed to Feedback

Unfortunately the solution is not complete for `includeUnpublished = true`.

In this case you again get an NPE as you can see IDE warning.

Not sure if the following is correct in all cases:

```
if direction == null:
    result += " AND rel."+direction.invers()+"publish = :publish AND rel."+direction+"publish = :publish ";
```

Maybe we need to handle this together with the changes made for this ticket which makes the code complicated.

As this is unclear and as the code that lead to the exception is the ONLY one using `direction == null` I personally would prefer to not allow `direction == null` at all. This is because the calling code will anyway distinguish the 2 cases and this way it becomes all clearer.

The above exception can than easily be handled on higher level by handling these 2 cases as all other calling methods do.

Only we need to make this clear in Javadoc and throw NPE or IAE if `direction == null`.

#6 - 09/13/2018 12:39 PM - Andreas Müller

- % Done changed from 100 to 80

#7 - 09/17/2018 11:11 AM - Andreas Kohlbecker

Andreas Müller wrote:

Unfortunately the solution is not complete for includeUnpublished = true.

In this case you again get an NPE as you can see IDE warning.

Not sure if the following is correct in all cases:

```
if direction == null:
    result += " AND rel."+direction.invers()+" .publish = :publish AND rel."+direction+".publish = :publish "
;
```

Maybe we need to handle this together with the changes made for this ticket which makes the code complicated.

As this is unclear and as the code that lead to the exception is the ONLY one using direction == null I personally would prefer to not allow direction == null at all. This is because the calling code will anyway distinguish the 2 cases and this way it becomes all clearer.

The above exception can than easily be handled on higher level by handling these 2 cases as all other calling methods do.

Only we need to make this clear in Javadoc and throw NPE or IAE if direction == null.

What about performance? Isn't it better to do it in one call instead of having to query the DB 2 times?

#8 - 09/17/2018 11:15 AM - Andreas Kohlbecker

- Assignee changed from Andreas Kohlbecker to Andreas Müller