

Metacat - Bug #5608

Enable all FK constraints in Metacat production [copies]

05/14/2012 12:14 PM - ben leinfelder

Status:	New	Start date:	05/14/2012
Priority:	Normal	Due date:	
Assignee:	ben leinfelder	% Done:	0%
Category:	metacat	Estimated time:	0.00 hour
Target version:	Unspecified	Spent time:	0.00 hour
Bugzilla-Id:	5608		
Description			
Looks like the FK constraints have been removed from the production knb database.			
select conname, contype, conkey, confkey from pg_constraint;			
Need to see what FKs are no long satisfied and potentially fix them as best we can so that the constraints can be re enabled.			

History

#1 - 05/14/2012 12:27 PM - ben leinfelder

14.4.9. Some Notes About pg_dump:

<http://www.postgresql.org/docs/8.3/interactive/populate.html>

#2 - 05/14/2012 05:08 PM - ben leinfelder

The errors encountered were....

```
ALTER TABLE xml_documents ADD
CONSTRAINT xml_documents_rep_fk
FOREIGN KEY (server_location) REFERENCES xml_replication;
--ERROR: insert or update on table "xml_documents" violates foreign key constraint "xml_documents_rep_fk"
--DETAIL: Key (server_location)=(5) is not present in table "xml_replication".
```

```
ALTER TABLE xml_revisions ADD
CONSTRAINT xml_revisions_rep_fk
FOREIGN KEY (server_location) REFERENCES xml_replication;
--ERROR: insert or update on table "xml_revisions" violates foreign key constraint "xml_revisions_rep_fk"
--DETAIL: Key (server_location)=(-2) is not present in table "xml_replication".
```

```
ALTER TABLE xml_revisions ADD
CONSTRAINT xml_revisions_catalog_fk
FOREIGN KEY (catalog_id) REFERENCES xml_catalog;
--ERROR: insert or update on table "xml_revisions" violates foreign key constraint "xml_revisions_catalog_fk"
--DETAIL: Key (catalog_id)=(27) is not present in table "xml_catalog".
```

```
ALTER TABLE xml_index ADD
CONSTRAINT xml_index_nodeid_fk FOREIGN KEY (nodeid) REFERENCES xml_nodes;
--ERROR: insert or update on table "xml_index" violates foreign key constraint "xml_index_nodeid_fk"
--DETAIL: Key (nodeid)=(471661167) is not present in table "xml_nodes".
```

```
ALTER TABLE xml_index ADD
CONSTRAINT xml_index_docid_fk
FOREIGN KEY (docid) REFERENCES xml_documents;
--ERROR: insert or update on table "xml_index" violates foreign key constraint "xml_index_docid_fk"
--DETAIL: Key (docid)=(MV.7) is not present in table "xml_documents".
```

```
ALTER TABLE xml_path_index ADD
CONSTRAINT xml_path_index_docid_fk
FOREIGN KEY (docid) REFERENCES xml_documents;
--ERROR: insert or update on table "xml_path_index" violates foreign key constraint "xml_path_index_docid_fk"
--DETAIL: Key (docid)=(MV.7) is not present in table "xml_documents".
```

#3 - 05/14/2012 05:10 PM - ben leinfelder

For the index errors we can safely delete the index records in violation of the constraint and apply it.

For the server_ids, 2 and 5 we perhaps should add placeholders for them in xml_replication - who knows where they came from.

For the xml_catalog 27, we should check what the doctype might be and choose accordingly - either add a record or update the xml_documents entry.

#4 - 05/14/2012 05:14 PM - ben leinfelder

catalog_id = 27 is a "-//ecoinformatics.org//eml-software-2.0.0beta5//EN" doctype with docid=jdoe.23.1

We have that entry as catalog_id = 41, though we may want to use a relative path (no server) for the location:

41 | DTD | null | null | -//ecoinformatics.org//eml-software-2.0.0beta5//EN |

<http://metacat.nceas.ucsb.edu/knb/dtd/eml-software-2.0.0.beta5e.dtd>

#5 - 05/14/2012 05:16 PM - ben leinfelder

the server_location=5 docs are 'seabloom' and 'borer' prefixes:

- borer.13.2
- borer.14.2
- seabloom.10.1
- seabloom.6.2
- seabloom.7.1
- seabloom.8.1
- seabloom.9.1

#6 - 05/14/2012 05:17 PM - ben leinfelder

The server_location = -2 docs are a mismatch:

docid	rev
SHS15X_015MHP2009R00_20110516.50	1
knb-lter-gce.292	17
knb-lter-bnz.89	10
knb-lter-gce.95	28
knb-lter-bes.439	47
knb-lter-bes.493	47
knb-lter-gce.40	37
knb-lter-gce.91	16
knb-lter-bes.559	47
knb-lter-gce.114	16
knb-lter-gce.288	17
knb-lter-gce.184	26
knb-lter-gce.90	16
knb-lter-gce.93	37
knb-lter-gce.220	27
knb-lter-bes.344	44
CMRX00_XXXIBTNXMBR12_20110626.40	1
knb-lter-gce.206	17
SHLX00_XXXIBTNXMBR21_20110509.40	1
knb-lter-gce.285	17
knb-lter-bes.503	47
knb-lter-gce.92	38
knb-lter-bes.165	47
RKPX00_XXXITV2XLSR02_20101010.50	2
knb-lter-bes.499	46
GHVX00_XXXITV2XHSR01_20110320.50	1

#7 - 05/22/2012 04:52 PM - ben leinfelder

I've drafted a script that corrects FK violations and re-applies the original constraints. The xml_index table takes quite a long time to process (5 hours and counting as of right now for the reference to docid in xml_documents).

#8 - 03/27/2013 02:31 PM - Redmine Admin

Original Bugzilla ID was 5608