

## Infrastructure - Task #1590

Feature # 1577 (Closed): use tables for storing System Metadata in Metacat

Task # 1579 (Closed): create additional tables

### create replica policy table

2011-05-24 23:28 - Ben Leinfelder

|                         |                        |                        |            |
|-------------------------|------------------------|------------------------|------------|
| <b>Status:</b>          | Closed                 | <b>Start date:</b>     | 2011-05-24 |
| <b>Priority:</b>        | Normal                 | <b>Due date:</b>       |            |
| <b>Assignee:</b>        |                        | <b>% Done:</b>         | 100%       |
| <b>Category:</b>        |                        | <b>Estimated time:</b> | 0.00 hour  |
| <b>Target version:</b>  | Sprint-2011.23-Block.3 | <b>Story Points:</b>   |            |
| <b>Milestone:</b>       |                        |                        |            |
| <b>Product Version:</b> | *                      |                        |            |
| <b>Description</b>      |                        |                        |            |

### History

#### #1 - 2011-05-26 19:45 - Ben Leinfelder

This is a bit trickier in that it has nested one-to-many. My first proposal flattens it into a single table where the attributes (replicationAllowed and numerReplicas) are duplicated when we have multiple preferred and/or blocked nodes:

```
CREATE TABLE systemMetadataReplicationPolicy (  
  guid text, -- the globally unique string identifier of the object that the system metadata describes  
  preferred_member_node VARCHAR(250), -- preferred replication member node  
  blocked_member_node VARCHAR(250), -- blocked replication member node  
  allowed boolean, -- replication allowed  
  numer_replicas INT8, -- the number of replicas allowed
```

```
CONSTRAINT systemMetadataReplicationPolicy_fk  
FOREIGN KEY (guid) REFERENCES systemMetadata  
);
```

#### #2 - 2011-05-26 20:15 - Ben Leinfelder

A better approach:

1.) move these attributes to systemMetadata:

```
* ALTER TABLE systemMetadata ADD COLUMN replication_allowed boolean;
```

```
* ALTER TABLE systemMetadata ADD COLUMN number_replicas INT8;
```

2.) then make the policy table more flexible:

```
CREATE TABLE systemMetadataReplicationPolicy (  
  guid text, -- the globally unique string identifier of the object that the system metadata describes  
  member_node VARCHAR(250), -- replication member node  
  policy text, -- the policy (preferred, blocked, etc...TBD)  
  CONSTRAINT systemMetadataReplicationPolicy_fk  
  FOREIGN KEY (guid) REFERENCES systemMetadata  
);
```

**#3 - 2011-05-27 04:13 - Ben Leinfelder**

- *Status changed from New to In Progress*

- *% Done changed from 0 to 80*

almost done testing this implementation locally

**#4 - 2011-05-27 16:46 - Ben Leinfelder**

- *Status changed from In Progress to Closed*

- *% Done changed from 80 to 100*