Foreman - Refactor #2003

improve pararmetize classes params retrivial speed

12/05/2012 07:59 AM - Ohad Levy

Status:	Closed		
Priority:	Normal		
Assignee:	Ohad Levy		
Category:	External Nodes		
Target version:	1.1		
Difficulty:		**Fixed in Releases:**	
Triaged:		**Found in Releases:**	
Bugzilla link:		**Red Hat JIRA:**	
Pull request:			

Description

Currently, when foreman search for a given parameter value, it would find the smart variable possible order and generate a few queries based on each matcher, for example:

```
SELECT "lookup_values".* FROM "lookup_values" WHERE "lookup_values"."match" = 'fqdn=host.example.com' AND ("lookup_values".lookup_key_id = 270) LIMIT 1
SELECT "lookup_values".* FROM "lookup_values" WHERE "lookup_values"."match" = 'domain=example.com' AND ("lookup_values".lookup_key_id = 270) LIMIT 1
SELECT "lookup_values".* FROM "lookup_values" WHERE "lookup_values"."match" = 'os=redhat 6.2' AND ("lookup_values".lookup_key_id = 270) LIMIT 1
.
.
.
```

since this happens for every parameter, this could eventually slow the system down.
an alternative approch would be to query to all possible values in one go, for example

```
 LookupValue Load (0.2ms)  SELECT "lookup_values".* FROM "lookup_values" WHERE "lookup_values"."match" = 'domain=example.com' AND "lookup_values"."lookup_key_id" IN (376, 270, 377, 275, 261)
```

Related issues:

Related to Foreman - Bug #2011: Param Class optimization fails on Postges	**Closed**	**12/05/2012**

Associated revisions

Revision 2b9392bb - 12/05/2012 08:52 AM - Ohad Levy

SQL improvments for paramaters in host edit section refs #2003

Revision e76ac9ca - 12/05/2012 08:52 AM - Ohad Levy

fixes #2003 - Improve Parameterized classes values retrieval time

This patch adds a new classification class which
tries to fetch all values at once

The initial implementation cared about a name / value at a time
however getting all at once (e.g. during a puppet ENC call) is much more
common.

This patch creates in memory tree of all possible values and process
them in memory instead of asking the database for each possible match.

History

#1 - 12/05/2012 09:34 AM - Ohad Levy

- Status changed from New to Closed

- % Done changed from 0 to 100

Applied in changeset [e76ac9ca4690f34791d726ccac41373e43616df6](#).