Filter by os_minor includes unexpected values

Description
Cloned from https://bugzilla.redhat.com/show_bug.cgi?id=1710511

Description of problem:
Filter by os_minor includes unexpected values.

Version-Release number of selected component (if applicable):

How reproducible:
To reproduce:
1. navigate to Hosts => All Hosts
2. enter the following filter: "os_major = 6 and os_minor < 4" and click Search

If version 6.10 is included in the search results, even though 10 is not < than 4.

Notice in the other attached that 6.2 and 6.3 servers are also mentioned, and no 6.4 through 6.9 servers are in the results. However, 6.10 should also not show

Expected: only 6.0, 6.1, 6.2 and 6.3 servers should show

Associated revisions
Revision 153a3310 - 11/19/2019 11:20 AM - yifat makias
Fixes #26816 - fixed bug in major, minor filtering

History
#1 - 05/17/2019 10:35 AM - Marek Hulán
- Difficulty set to easy
- Category changed from Inventory to Search
- Subject changed from Filter by os_minor includes unexpected values on the Satellite web UI. to Filter by os_minor includes unexpected values on the Satellite web UI.

The reason is that minor version of OS is treated as a string, because it can contain non numerical characters, e.g. 2.1511 in case of CentOS. Therefore we can only compare these value lexically. And 10 is lexically lower than 6, since 1 is earlier in alphabet than 6. For search purposes we could break all numbers apart and store them in DB as integers.

An easy workaround is to query it like "os_major = 6 and os_minor ^ (1,2,3,4)".
#2 - 09/11/2019 01:04 PM - yifat makias
- Assignee set to yifat makias
- Status changed from New to Assigned

#3 - 09/22/2019 11:01 AM - The Foreman Bot
- Pull request https://github.com/theforeman/foreman/pull/7056 added

#4 - 09/22/2019 11:02 AM - The Foreman Bot
- Status changed from Assigned to Ready For Testing

#5 - 09/24/2019 01:12 PM - The Foreman Bot
- Pull request https://github.com/theforeman/foreman/pull/7065 added

#6 - 11/19/2019 11:20 AM - The Foreman Bot
- Fixed in Releases 2.0.0 added

#7 - 11/19/2019 12:01 PM - yifat makias
- Status changed from Ready For Testing to Closed

Applied in changeset 153a3310b88542825509b00bf61a6d62d0492221.

#8 - 02/17/2020 12:47 PM - Tomer Brisker
- Subject changed from Filter by os_minor includes unexpected values on the Satellite web UI. to Filter by os_minor includes unexpected values