CS286A Metadata Repository: Demo

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# Sample Repository Content

## 05/01/2015

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| --- | --- |
| **File** | **Metadata** |
| a.java | **lines**: 500, **owner**: "Enrico", **size**: 1024 |
| b.java | **lines**: 1000, **owner**: "Enrico", **size**: 1024 |
| a.csv | **rows**: 5000, **cols**: 5, **owner**: ["Fei", "Jimmy"], **size**: 5684120 |
| Sailors1 | **sailors**: 100, **owner**: "Joe", **size**: 2048 |
| Sailors2 | **sailors**: 50, **boats**: 20, **owner**: "Joe", **size**: 584 |

## 

## 05/07/2015

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| --- | --- |
| **File** | **Metadata** |
| a.java | **lines**: 750, **owner**: "Enrico", **tested**: "true", **size**: 1654 |
| b.java | **lines**: 2500, **owner**: "Joe", **tested**: "false", **size**: 2556 |
| a.csv | **rows**: 5000, **cols**: 5, **owner**: ["Fei", "Jimmy", "Enrico"], **size**: 5684120 |
| Sailors1 | **sailors**: 4000, **owner**: "Joe", **size**: 4986204 |
| Sailors2 | **sailors**: 150, **boats**: 120, **owner**: "Joe", **size**: 2324 |

# Sample Queries

## 1. Committing

First, let's use the namespace "demo":

namespace demo

Now, commit all the stuff:

commit 5/1/15 a.java {lines: 500, owner: "Enrico", size: 1024}

commit 5/1/15 b.java {lines: 1000, owner: "Enrico", size: 1024}

commit 5/1/15 a.csv {rows: 5000, cols: 5, owner:["Fei","Jimmy"] size: 5684120}

commit 5/1/15 Sailors1 {sailors: 100, owner: "Joe", size: 2048}

commit 5/1/15 Sailors2 {sailors: 50, boats: 20, owner: "Joe", size: 584}

commit a.java {lines: 750, owner: "Enrico", tested: "true", size: 1654}

commit b.java {lines: 2500, owner: "Joe", tested: "false", size: 2556}

commit a.csv {rows: 5000, cols: 5, owner: ["Fei", "Jimmy", "Enrico"], size: 5684120}

commit Sailors1 {sailors: 4000, owner: "Joe", size: 4986204}

commit Sailors2 {sailors: 150, boats: 120, owner: "Joe", size: 2324}

## 2. Showing metadata

### Basic show

Show the current metadata for a.java:

show a.java

Show the metadata of a.java on 05/03/2015:

show 5/3/15 a.java

### Wildcards

Show the metadata of any file that has extension .java on 05/03/2015:

show 5/3/15 \*.java

## 3. Querying metadata

### Basic find

Find any file that is currently owned by Joe:

find owner=Joe

Find any file that currently has size more than or equal to 1,000,000:

find size >= 1000000

Find any file that was owned by Joe on 05/03/2015:

find 5/3/15 owner=Joe

### Wildcards

Find any file that is owned by someone whose name starts with J:

find owner like J\*

### Joins

Find any file that is currently owned by Joe and has size greater than 2504:

find owner = Joe and size > 2504

Find any file that has metadata key named "tested":

find tested like \*

Complicated join:

find 5/2/15 owner != Joe and lines > 600 or sailors > 25 and sailors < 75 and boats < 50 and owner like \*e or size > 1000000

## 4. Notes

The current version of metadata repo supports:

* **Operations**: or, and, like, <, >, <=, >=, =, !=
* **Values**: string, integer, float
* **Wildcards** are UNIX-style glob: \*, ?
* **Time format**: "MM/dd/yy" or ms since epoch