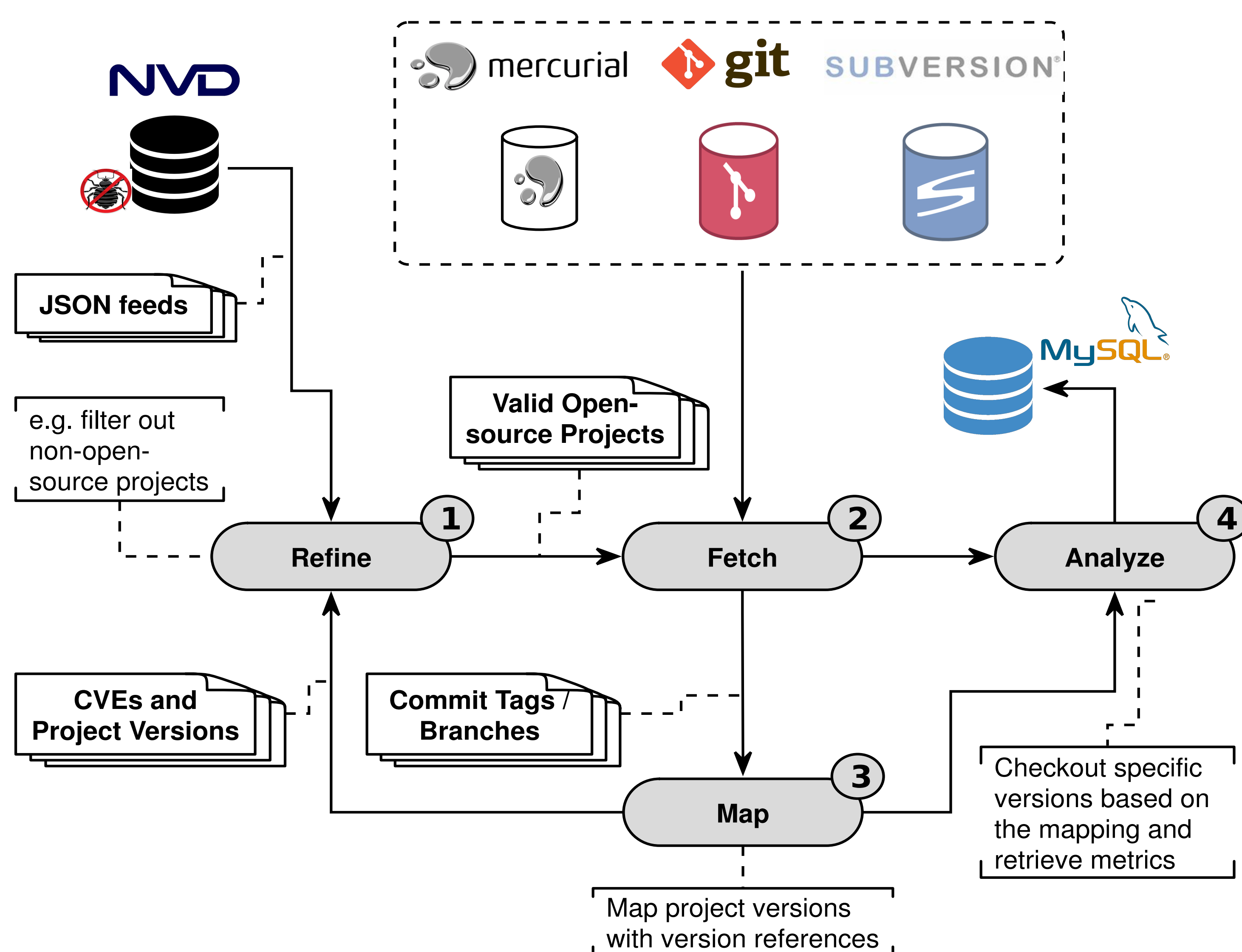


# VulinOSS: A Dataset of Security Vulnerabilities in Open-source Systems

## Dataset Construction Architecture

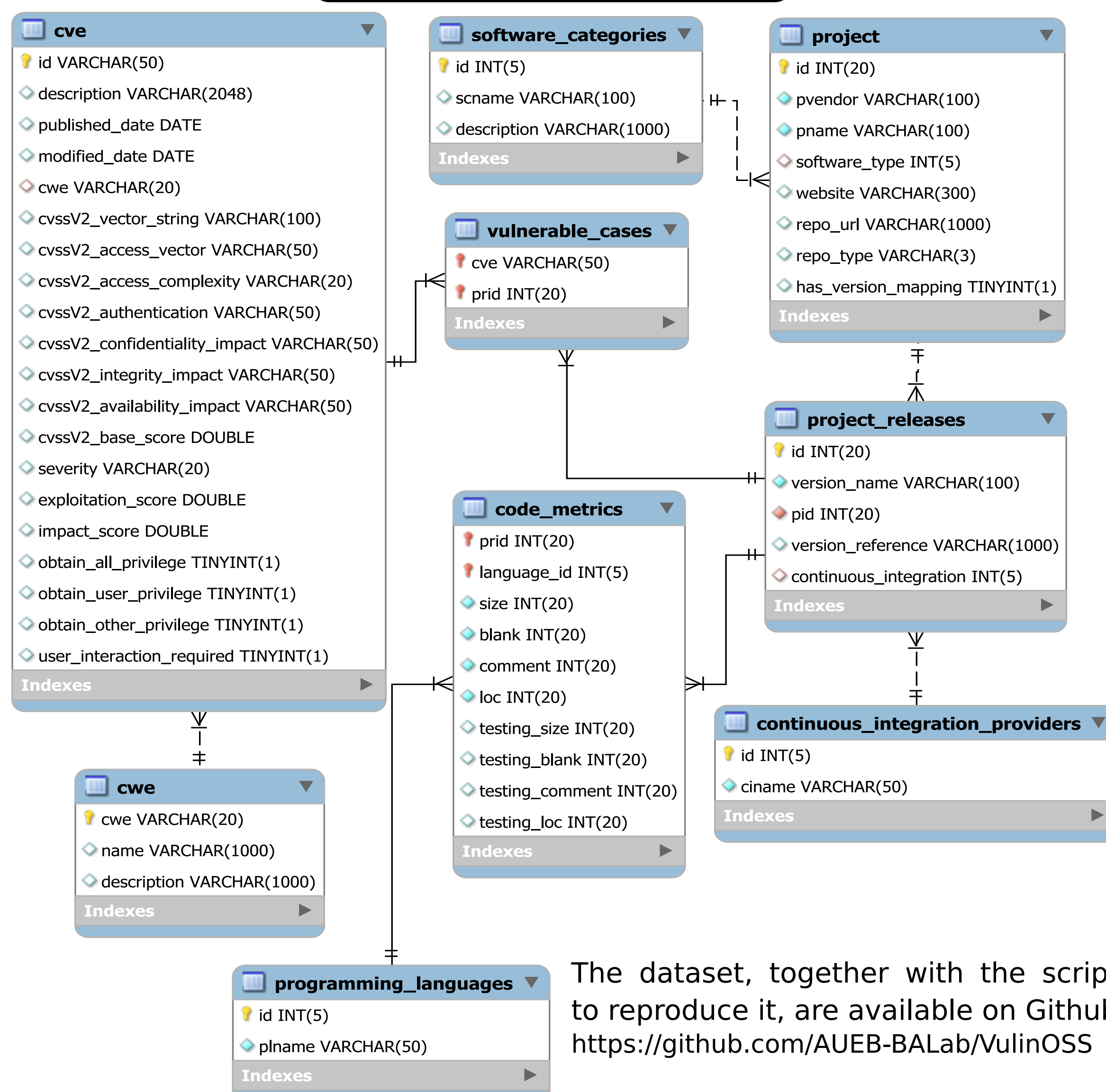


- 1 Parsed the NVD vulnerability reports and created a list of projects and their vulnerabilities. Manually inspected the list and selected the projects that are open source and have an available version control system.
- 2 Cloned locally the repositories from Git, Mercurial and Subversion that were selected at step 1.
- 3 Associated the project versions as reported in NVD with the version references (commit tags and branches) found in their version control system history.
- 4 With Python workers we checked out each version reference and retrieved code metrics and continuous integration evidence for this specific version. The findings are stored in a MySQL database.

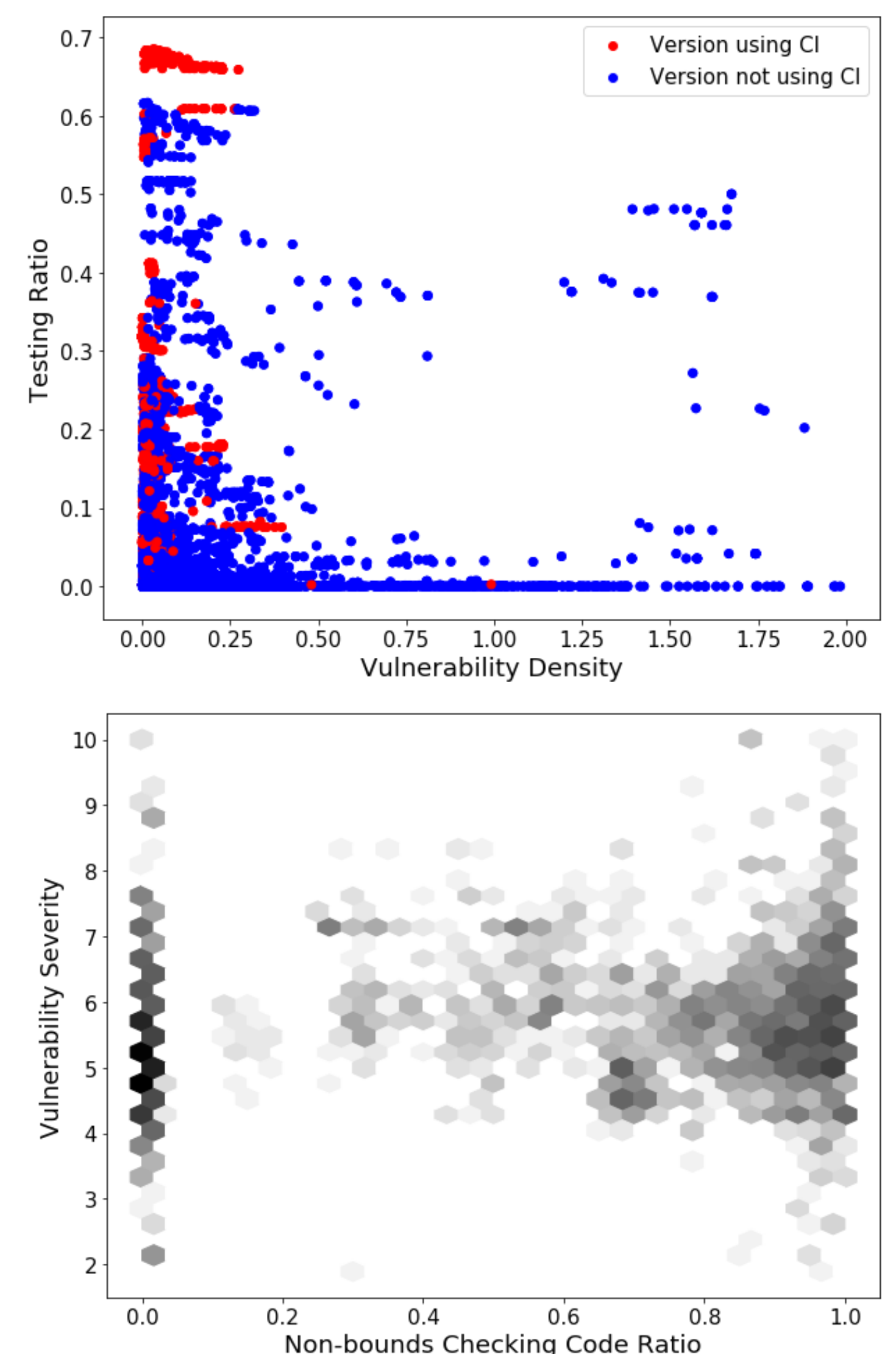
### Dataset Descriptive Statistics

Measurement	Value
Projects	153
Project Versions	23884
Mapped Versions	8694
Number of Vulnerabilities	17738
Project Versions employing CI	1538

## Database Schema



## Application Examples



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