Schema

- Priority(<u>priorityID</u>, priorityName)
- Framework(<u>frameworkID</u>, frameworkName)
- Status(<u>statusID</u>, statusName)
- Project(<u>projectID</u>, projectName)
- Bug(<u>bugID</u>, description, <u>projectName</u>, submissionDate, dateOpened, <u>frameworkName</u>, <u>priorityName</u>, <u>statusName</u>)
- History(<u>historyID</u>, <u>bugID</u>, dateCompleted, <u>statusName</u>, <u>priorityName</u>)
- Developer(<u>devID</u>, devName, <u>bugID</u>)
- BugAssignment(<u>assignmentID</u>, <u>bugID</u>, <u>devID</u>, <u>devName</u>)

BCNF

- Priority
  - No non-trivial functional dependencies
  - priorityID and priorityName form candidate key
  - Already in BCNF
- Framework
  - No non-trivial functional dependencies
  - frameworkID and frameworkName form candidate key
  - Already in BCNF
- Status
  - No non-trivial functional dependencies
  - statusID and statusName form candidate key
  - Already in BCNF

- Project
  - No non-trivial functional dependencies
  - ProjectID and ProjectName form candidate key
  - Already in BCNF
- Bugs
  - Dependencies
    - bugID
    - projectName
  - frameworkName, priorityName and statusName is a candidate key, the table is BCNF.
- History
  - Dependencies
    - historyID
  - frameworkName. priorityName, statusName and bugID is a candidate key, the table is in BCNF.
- Developer
  - Dependencies
    - devID
  - devID and bugID are candidate key, table is in BCNF.
- BugAssignment
  - Dependencies
    - assignmentID
  - assignmentID is a candidate key, the table is in BCNF.