# Exploration

### Nick Lauerman

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# Purpose

To explore metrics options based on data collected by Software Quality Assurance in a spreadsheet for document review and approval.

# Libraries used

No libriries used yet

#require(tidyverse)

# Data

The data is presented n a CVS file (saved from an Excel workbook) with the following columns and data chartistics

 $\mathbf{SQA}$  SQAE Preforming the review

 $\textbf{Project ID} \ \ \text{Uniquie ID assigned tot he project may come from NPV or ePAS }$ 

Application Application Name (limited selection)

**Doc Version** Version number of the document, also know as the revision number

**Doc ID, if needed** unique identifier to distingous between documnets fo the same deliver type within a project

Approver or Disapprov? Approval status from the following list

- \* A Approved
- \* A-FP Approved on fist pass
- \* D Disapproved

Date of Approval or Disapproval Date action was taken

Reason for Disapproval: Selected from the following list

- Inaccurate information
- Incorrect scope
- Insufficient testing

- Insufficient traceability
- N/A
- Not compliant with procedure
- Not following configuration management
- Not following document version control
- Not using template
- Other
- Requirement deficiency

## Inport the data

The data is read in and variables are assigned more programically useful names.

### format the data

#### factors

Set the following data as factors:

```
*SQA
```

\*Application

\*Deliverable

\*status

```
FPA$sqa <- as.factor(FPA$sqa)
FPA$application <- as.factor(FPA$application)
FPA$deliverable <- as.factor(FPA$deliverable)
FPA$status <- as.factor(FPA$status)</pre>
```

#### Clean up reason

convert blank fields in status to NA when status is converted to a factor

```
FPA$reason <- as.factor(FPA$reason)
levels(FPA$reason)</pre>
```

```
## [1] ""
## [2] "Inaccurate information"
## [3] "Incorrect scope"
## [4] "Not compliant with procedure"
## [5] "Not following document version control"
## [6] "Requirement deficiency"

levels(FPA$reason)[1] <- NA
levels(FPA$reason)

## [1] "Inaccurate information"
## [2] "Incorrect scope"
## [3] "Not compliant with procedure"
## [4] "Not following document version control"
## [5] "Requirement deficiency"</pre>
```

#### Date

```
FPA$date <- as.Date(FPA$date, format = "%d-%B-%y")
```