Technical Requirments

**Normalization Phase 1**

1. Combine all Jira Export .csv files into a single file for processing
2. Produce a .csv files for ingestion by Power BI
   * JiraRawData.csv
3. **JiraRawData.csv** Transformations
   * Filter out any rows with no [Issue Key] (most likely indicate an escape character in csv file)
   * Remove any duplicate based on [Issue Key}
   * Remove “Custom field (" from all column headers
   * Remove “"Outward issue link ( " from all column headers
   * Remove “"Inward issue link ( " from all column headers
   * Filter [Status] to exclude following values
     + Cancelled
     + Duplicate
   * Remove “)” from all column headers
   * Change data type to DATETIME and then to DATE for the following columns
     + [Created]
     + [Updated]
     + [Last Views]
     + [Baseline Start Date]
     + [Baseline End Date]
     + [Start Date]
     + [End Date]
     + [Resolved]
   * Replace empty values with NULL in [Resolution]
   * Replace empty values with NULL in [Agile Team]
   * Rename [Agile Team] Column to [Agile Team Old]
   * Add New Column named it Agile Team
   * Update the data in this column using the following rules
     + If [Agile Team old] <> null then [Agile Team] = [Agile Team Old] else look up project using [Project key]

**Project lookup Table**

| **Project key** | **Agile Team** |
| --- | --- |
| NOPT | PMO |
| TIHSNW | Data Analytics |
| TBPSNW | Data Analytics |
| NVCAP | Cloud |
| NSECA | Cloud |
| NPORTM | Cloud |
| NPLAT | Cloud |
| NMCA | Cloud |
| NCOSM | Cloud |
| NCADPT | Cloud |
| NAZURE | Cloud |
| NAWS | Cloud |

* + [Custom Field 1] Transformations – The intent of this field is to show numeric % complete value for tasks. The input field is free text so steps will need to be taken to eliminate any non-numeric value and keep only the first numeric values. If the filed is null the assume zero *(other transformations may be needed depending on the data)*
  + Steps taken to date
    - Remove any data after first space
    - Remove “%”
    - Replace space or empty field with null
    - Convert text to number
    - Convert to decimal by dividing by 100

**Transformation Phase 1**

1. **JiraRawData.csv** Transformations
   * Create new column named [Resolution\_EOW] using the [Resolution] field to determine the **Saturday** of the week of the [Resolution] date and convert to DATETIME and then to DATE
   * Create new column named [Planned Closed] using the [Baseline end date] field to determine the **Saturday** of the week of the [Resolution] date and convert to DATETIME and then to DATE
   * Create new column named [Resolution Month] using the [Resolution] field to determine the **Month** of the [Resolution] date and convert to DATETIME and then to DATE
   * Create new column named [Planned Month] using the [Baseline end date] field to determine the **Month** of the [Resolution] date
   * Create new column named [Resolution Year] using the [Resolution] field to determine the **Year** of the [Resolution] date
   * Create new column named [Planned Year] using the [Baseline end date] field to determine the **Year** of the [Resolution] date
   * Create new column named [Created EOW] using the [Created] field to determine the **Saturday** of the week of the [Resolution] date and convert to DATETIME and then to DATE
   * Create new column named [Created EOM] using the [Created] field to determine the **Month** of the [Created] date
   * Create new column named [Created Year] using the [Created] field to determine the **Year** of the [Revised] date
   * Create new column named [Revised EOW] using the [Created] field to determine the **Saturday** of the week of the [Resolution] date and convert to DATETIME and then to DATE
   * Create new column named [Revised EOM] using the [Created] field to determine the **Month** of the [Revised] date