

Axion - Analyst Assignment

Task 1 - Failure and Fix/Resolution Conditions & Components Tagging

1. Sheets to use: Task 1, Task_1_Taxonomy
2. The sheet 'Task 1' has multiple rows of customer comments (Column B) from which the candidate should tag **Fix/Resolution_Condition [Ax]**, **Fix/Resolution_Components [Ax]**, **Failure_Condition [Ax]**, **Failure_Component [Ax]** by reading Description (Column B). Taxonomy for the Failure mode and Fix/Resolution are available in the sheet 'Task_1_Taxonomy'.

3. Procedure:

- **Fix/Resolution_Condition [Ax]**:- Use the **Description** column to find the matching Fix/Resolution condition from the list of **Fix/Resolution_Condition [Ax]** Category in the Task_1_Taxonomy Sheet.
- **Fix/Resolution_Components [Ax]**:- Use the **Description** column to find the matching Fix/Resolution component from the list of **Fix/Resolution_Component [Ax]** Category in the Task_1_Taxonomy Sheet.
- **Failure_Condition [Ax]**:- Use the **Description** column to find the matching Failure condition from the list of **Failure_Condition [Ax]** Category in the Task_1_Taxonomy Sheet.
- **Failure_Component [Ax]**:- Use the **Description** column to find the matching Failed component from the list of **Failure_Component [Ax]** Category in the Task_1_Taxonomy Sheet.

***Note:** Two Examples of how to tag the data are already provided in Task 1. Please refer to those examples.

Task 2 - Tag Failure Condition/Component and create taxonomy for the same

1. Sheets to use: Task 2, Task_2_Taxonomy
2. The sheet 'Task 2' has multiple rows of Description from which the candidate should tag **Failure_Condition [Ax]**, **Failure_Component [Ax]** by reading the **Description column**. Unlike Task-1, the candidate has to create his/her own taxonomy for finishing this task.
After tagging in sheet 'Task 2', add the taxonomy in Sheet 'Task_2_Taxonomy'.

3. Procedure:

- Use Description column to fill Failure_Condition [Ax], Failure_Component [Ax].
- Update the Task_2_Taxonomy on the basis of what you tagged.
- If you get more than one Failure Condition/Component, feel free to add new columns.

***Note:** Two Examples of how to tag the data are already provided in Task 2. Please refer to those examples.

Task 3 - Do a data validation on a sample data with the template provided.

Instructions:

1. Here is a task where you have to do the data validation for a sample set of raw_data. Refer to **Raw_Data** Tab in Task 3 sheet for raw data and what wh
2. Please use the “**Data_Validation_Template**” Tab to answer the questions asked around the raw data.
3. You need to first go through all the columns and understand the data before answering the question.
4. Do a column wise analysis and fill in the data validation template.
5. Fill in the total values, unique values per column and the description form whatever you understood from the column name.
6. Mention Yes/No in the checklist provided after going through the dataset.
7. After making all the assumptions in the data validation sheet, draft an overall synthesis.