Processing Description

**New Action**

1. Input parameters ( Division, Sector, SIC, Filer Category, Entity Id, User Id)
2. Checks for Scheduled Terms from processing log collection.
3. If there are terms return error message to user with already there are terms for processing.
4. If no terms are scheduled get the ordered list of term rules from Term rule collection.
5. Check for processing status for each terms to check are there any term rules are in progress from Term rule collection.
6. If there are any term rules with status in progress return error message to user.
7. If no terms are in progress status from Term rule collection.
8. For each term set the status to Scheduled and save it to processing log collection.
9. For each scheduled term validate data to check if Entity list, Term rule is not null and term rule processing status is not in progress.
10. For each term set the status to in progress and save the term.
11. Delete the existing term result for each term from term result collection.
12. Check for expressions for the term if there are no expression do nothing move forward with another term.
13. If there are expression build expression for processing.
14. If there is Industry Override for that term then industry override expression take precedence by checking with merge base expression if there is merge base expression then base expression take precedence else industry override.
15. Process concept match from normalized fact collection.
16. Process concept match with multiple from normalized fact collection.
17. Processing concept match with dim from normalized fact collection.
18. Process extended check from normalized fact collection.
19. Process extended check with dim from normalized fact collection.
20. Process variance info from normalized fact collection.
21. Process validation info from normalized fact collection.
22. Save term result with status completed.
23. Save Derived Zero Data.
24. Return user with success message.

**Existing Action**

1. Check for any scheduled terms from processing log collection if there are any terms return user error message.
2. If not terms in scheduled state check for in progress status from processing log collection if no terms return user with error message.
3. If there are any terms with in progress status check if the term is active for less than 30 minutes. If active return error message to user.
4. If not active for each term get the term rule from term rule collection.
5. For each term validate data to check if Entity list, Term rule is not null and term rule processing status is not in progress.
6. For each term set the status to in progress and save the term.
7. Delete the existing term result for each term from term result collection.
8. Check for expressions for the term if there are no expression do nothing move forward with another term.
9. If there are expression build expression for processing.
10. If there is Industry Override for that term then industry override expression take precedence by checking with merge base expression if there is merge base expression then base expression take precedence else industry override.
11. Process concept match from normalized fact collection.
12. Process concept match with multiple from normalized fact collection.
13. Processing concept match with dim from normalized fact collection.
14. Process extended check from normalized fact collection.
15. Process extended check with dim from normalized fact collection.
16. Process variance info from normalized fact collection.
17. Process validation info from normalized fact collection.
18. Save term result with status completed.
19. Save Derived Zero Data.
20. Return user with success message.

Delayed Term Rule Processing.

1. Processing logic is built two ways one with exclude quarterly fillings and Include Quarterly fillings.
2. If the processing is being done with quarterly filling usual amount of time take is greater than normal filings as there are more filings associated to it.
3. For e.g. if term has 10 expressions and we are processing the term against 10 entities with including quarterly filings then the term takes each FY filing and each Quarterly filing for all the ten expressions does the processing. This takes more time than usual processing.