1. Load Data into Tracking Table:

Objective: Verify that data is loaded into the tracking table successfully.

Steps:

Open the Python command prompt within the arcgis-py3-ddt environment.

Run the check_completion.py script with the desired run description:

bash

(arcgis-py3-ddt) c:\Users\akataso\AppData\Local\ESRI\conda\envs\arcgispro-py3-ddt> python d:\financial_calculation\financial-calculations\check_completion.py

Check the script logs for any errors or exceptions.

Verify that the expected run description is added to the tracking table.

2. Run Standalone Financial Calculations Script:

Objective: Ensure that the financial calculations script runs without errors and produces the expected output.

Steps:

While still in the arcgis-py3-ddt environment, run the launch_sga_process.py script:

bash

(arcgis-py3-ddt) c:\Users\akataso\AppData\Local\ESRI\conda\envs\arcgispro-py3-ddt> python d:\financial_calculation\financial-calculations\launch_sga_process.py

Check the script logs for any errors or exceptions.

Verify that the output tables (bbp_rankings, bid_recommendations, sba_scenarios) are populated in the respective databases (public.sga_bbp_ranking, public.sga_model_subsidy_proposal, public.sga_model_groups_strategy).

Cross-reference the results with the expected values or data.

3. Overall Testing:

Objective: Confirm the end-to-end functionality of financial calculations.

Steps:

Review the tested run descriptions and their impact on the tracking table.

Check the populated output tables for correctness and completeness.

Ensure the testing environment matches the production environment.

Verify that the script adheres to coding standards and best practices.

Perform additional tests with different run descriptions, if applicable.

Validate that the script handles edge cases and errors gracefully.

4. Documentation:

Objective: Ensure that documentation is accurate and up-to-date.

Steps:

Refer to the Financial Calculations Repository documentation for any specific testing instructions.

Update or create documentation for any changes made during testing.

Confirm that the documentation includes troubleshooting steps for common issues.

5. Collaboration:

Objective: Collaborate with team members to gather feedback and address any identified issues.

Steps:

Discuss the testing results with relevant team members.

Address and resolve any reported issues.

Collaborate on potential improvements or optimizations.

By following this testing strategy, you can systematically verify the functionality of financial calculations, ensuring that the script runs smoothly, and the output tables are accurate.