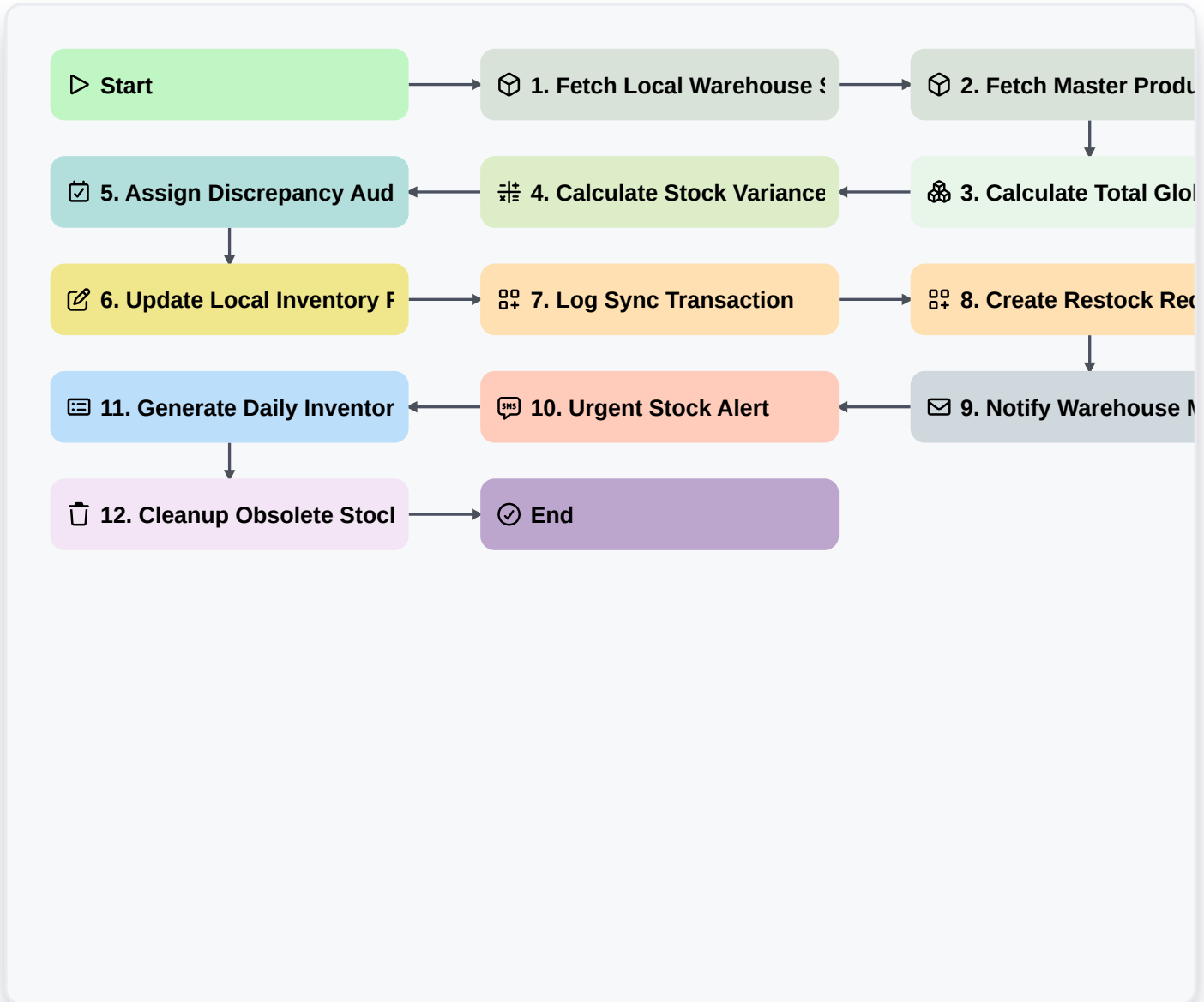


Multi-Location Inventory Synchronization Process



▷ **Start**

Start of the Workflow/Process.

 **1. Fetch Local Warehouse Stock**

Retrieve current inventory levels and SKU details from the specific local warehouse data model.

 **2. Fetch Master Product Catalog**

Retrieve the global product list to identify which items are eligible for synchronization.

 **3. Calculate Total Global Stock**

Sum the quantity of a specific SKU across all warehouse entries to determine total availability.

 **4. Calculate Stock Variance**

Subtract local warehouse quantity from the global master quantity to identify discrepancies.

 **5. Assign Discrepancy Audit**

Create a task for the Warehouse Manager to manually verify stock for items with high variance.



6. Update Local Inventory Records

Update the quantity field in the local warehouse data model to match the synchronized master value.

7. Log Sync Transaction

Create a new entry in the 'Sync History' data model to record the date, time, and items updated.

8. Create Restock Request

If local stock falls below a threshold, create a new entry in the 'Purchase Orders' data model.

9. Notify Warehouse Manager of Low Stock

Send an email alert to the manager when a stock update results in a quantity below the safety threshold.

10. Urgent Stock Alert

Send an SMS to the Logistics Head if a critical SKU hits zero stock during the sync process.

11. Generate Daily Inventory Health Report

Create a summary report showing total stock value and all recent discrepancies found during the sync.

12. Cleanup Obsolete Stock Records

Delete entries from the local warehouse model for SKUs that have been flagged as 'Discontinued' in the master catalog.

End

End of the Workflow/Process.