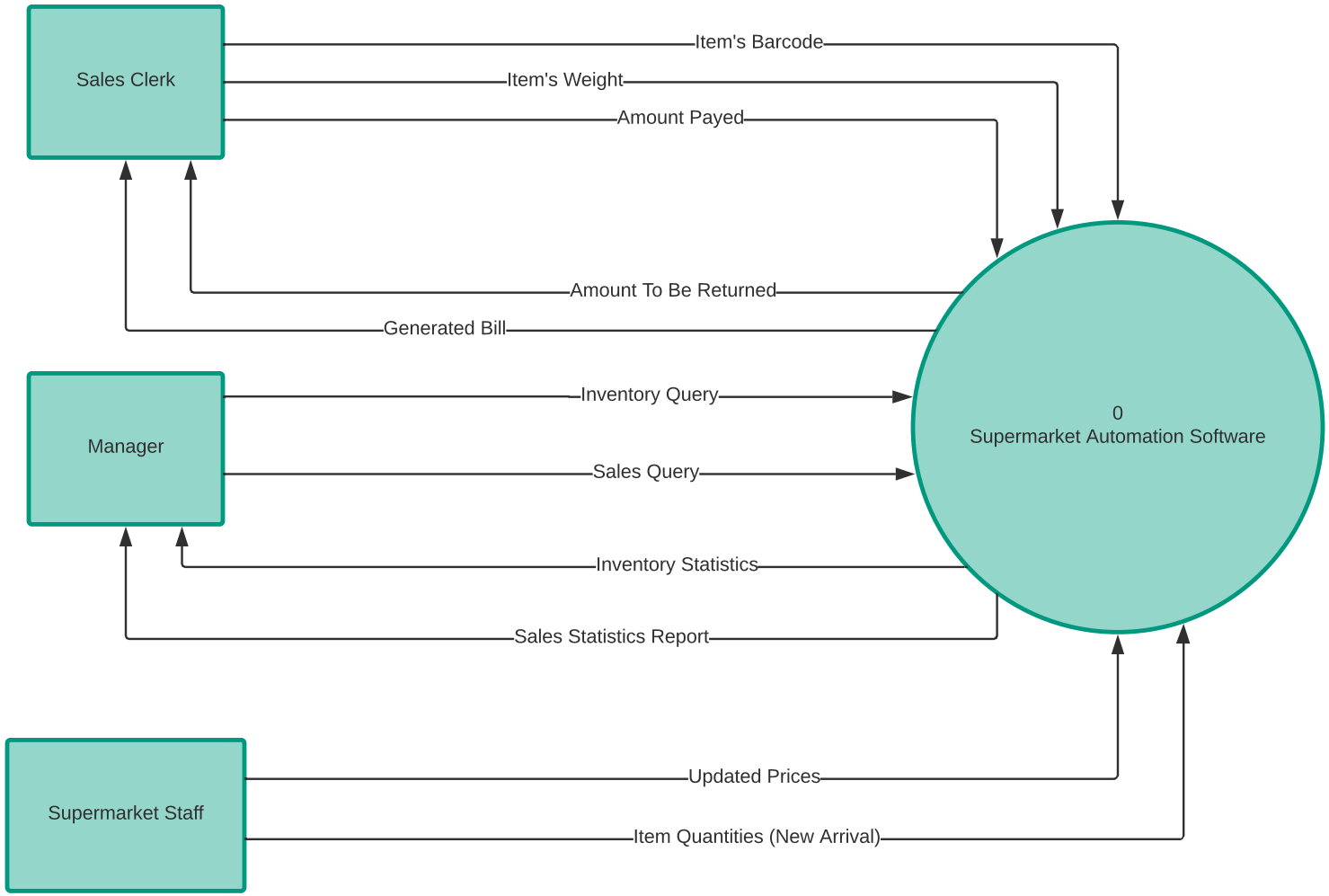
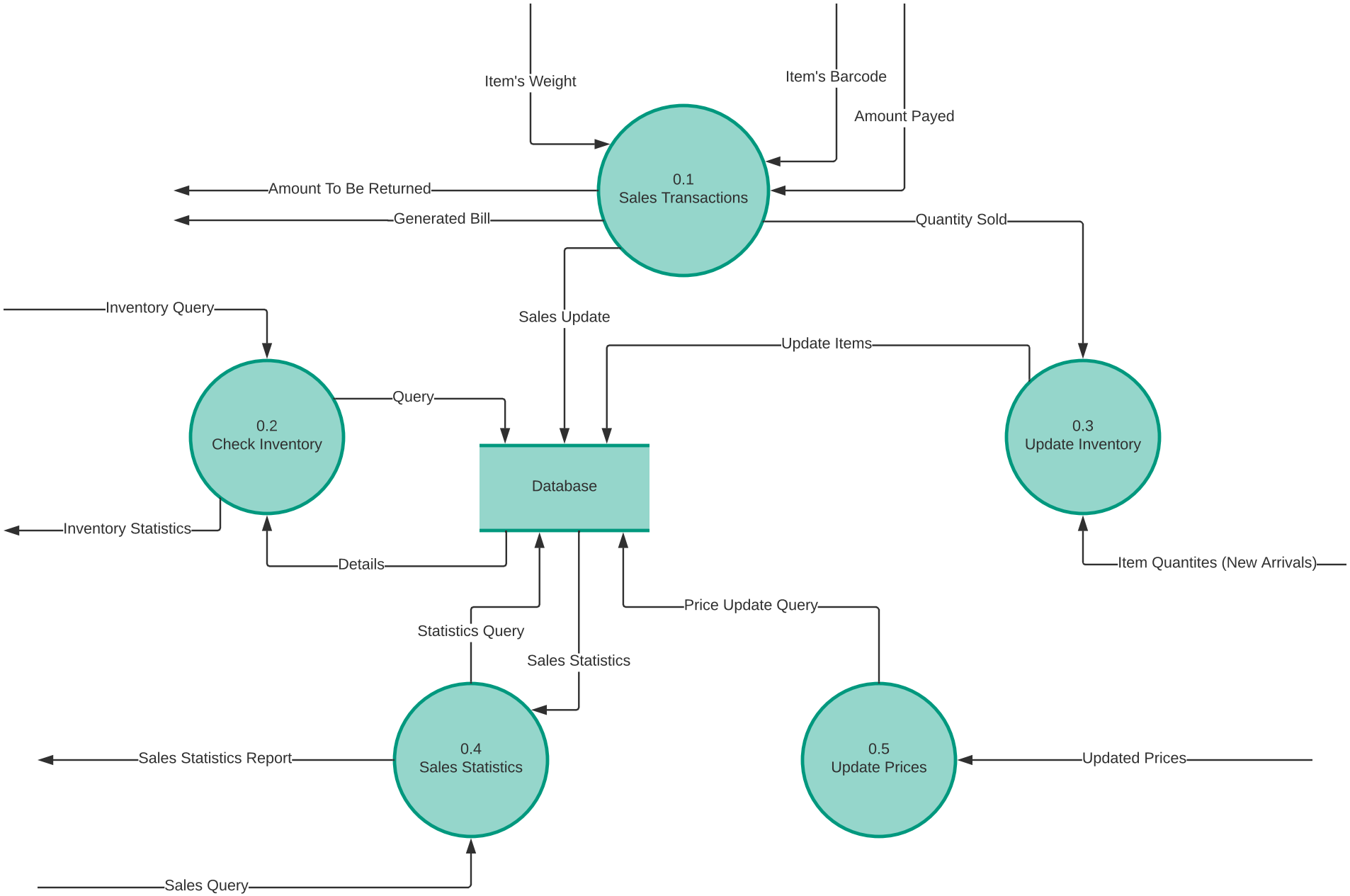
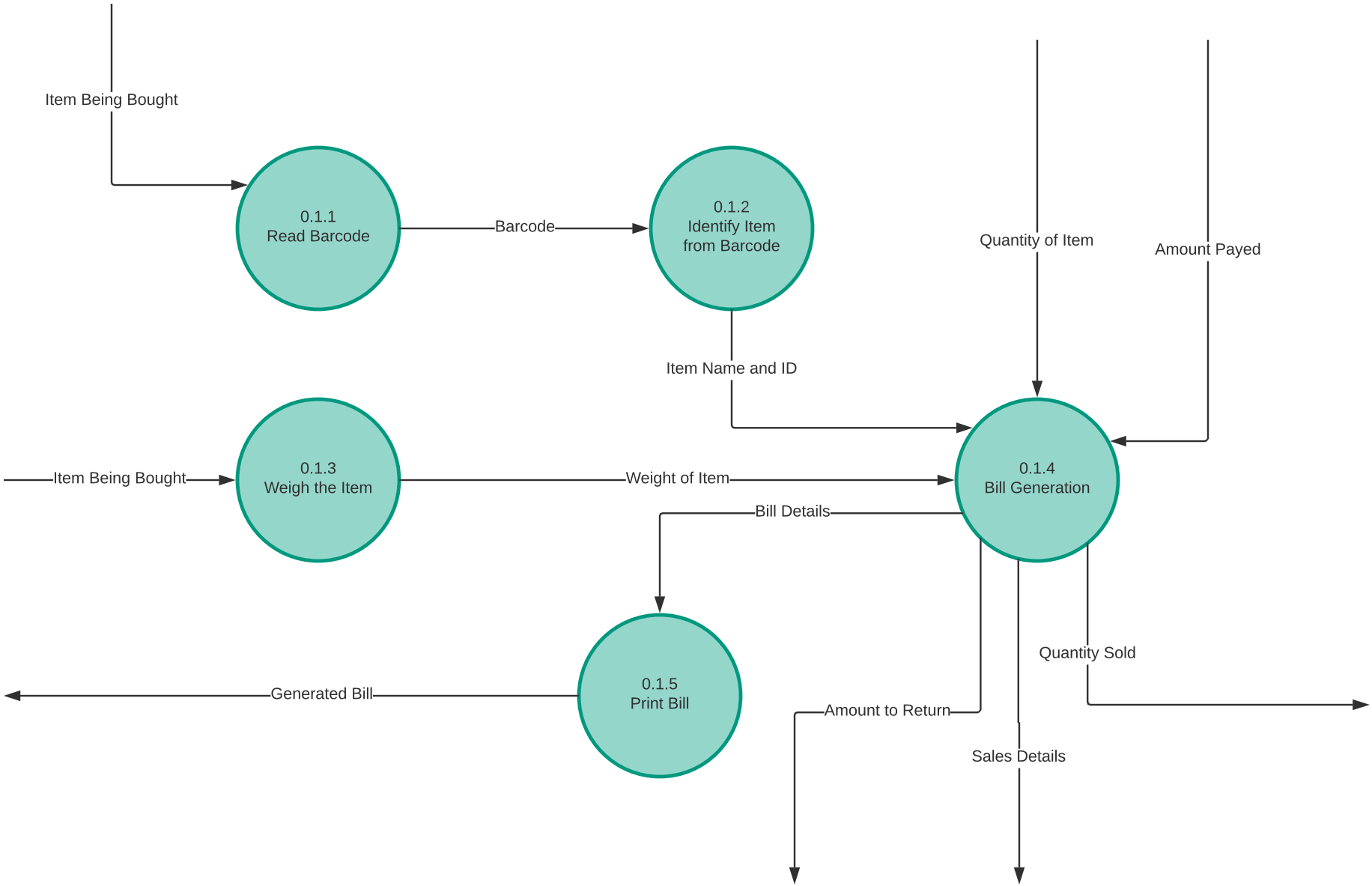
Data Flow Diagram for
Supermarket Automation Software



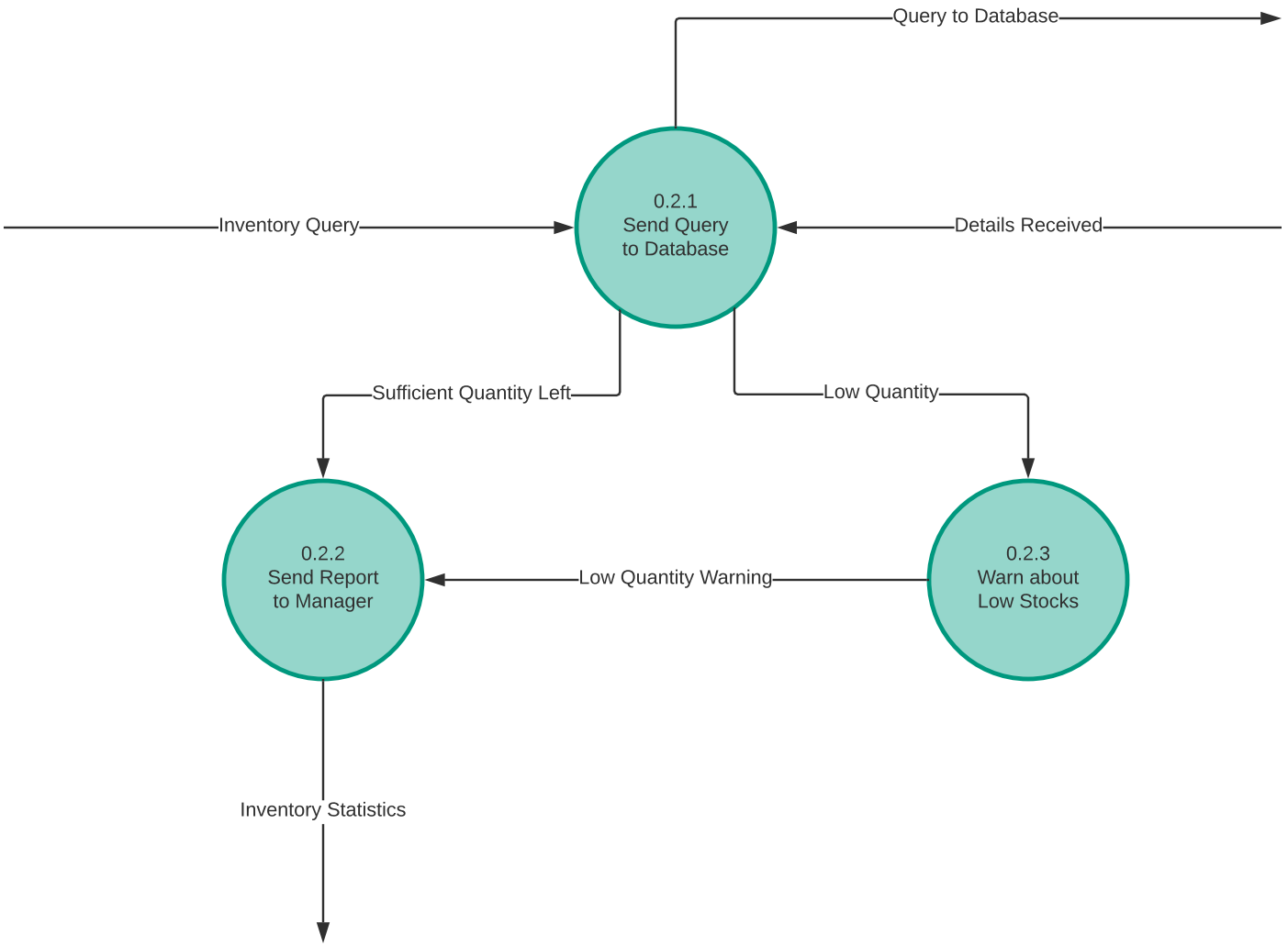
Level 0


Item's Weight
Item's Barcode
Amount Payed
0.1
Sales Transactions
Amount To Be Returned
Generated Bill
Quantity Sold
Inventory Query
Sales Update
Update Items
0.2
Check Inventory
Query
Database
0.3
Update Inventory
Inventory Statistics
Details
Item Quantites (New Arrivals)
Price Update Query
Statistics Query
Sales Statistics
0.4
Sales Statistics
0.5
Update Prices
Sales Statistics Report
Updated Prices
Sales Query

Level 1


Item Being Bought
0.1.1
Read Barcode
Barcode
0.1.2
Identify Item
from Barcode
Quantity of Item
Amount Payed
Item Name and ID
Item Being Bought
0.1.3
Weigh the Item
Weight of Item
0.1.4
Bill Generation
Bill Details
0.1.5
Print Bill
Generated Bill
Quantity Sold
Amount to Return
Sales Details

Level 2


Query to Database
0.2.1
Send Query
to Database
Inventory Query
Details Received
Sufficient Quantity Left
Low Quantity
0.2.2
Send Report
to Manager
Low Quantity Warning
0.2.3
Warn about
Low Stocks
Inventory Statistics

Level 2