

# Output

Date	28 June 2025
Team ID	LTVIP2025TMID30494
Project Name	Medical Inventory Management

## 1. Tabs Created in Salesforce and Inserted Records

- Product
- Supplier
- Purchase Order
- Order Item
- Inventory Transaction

Product Id	Product Name	Product Description	Minimum Stock	Current Stock	Unit Price	Expiry Date
1 P001	Paracetamol 500mg	Used to treat pain and fever	50	120	\$12.50	12/31/2025
2 P002	Vitamin C Tablets	Boosts immunity	30	80	\$8.75	3/15/2026
3 P003	Hand Sanitizer	Alcohol-based hand cleaner	20	60	\$45.00	11/1/2025
4 P004	Digital Thermometer	Measures body temperature	10	25	\$150.00	1/1/2028
5 P005	Surgical Mask	3-layer protective face mask	100	500	\$2.00	9/1/2025
6 P006	Ibuprofen 400mg	Anti-inflammatory painkiller	40	100	\$15.00	10/15/2025
7 P007	Glucose Powder	Instant energy drink mix	25	70	\$25.00	4/10/2026
8 P008	Inhaler	For asthma or respiratory relief	10	30	\$95.00	8/31/2026
9 P009	Blood Pressure Monitor	Measures BP at home	5	10	\$550.00	1/1/2030
10 P010	Antiseptic Liquid	Used for wound disinfection	15	45	\$35.00	7/15/2025

Purchase ...	Order Count	Order Date	Supplier ID	Total Order Cost	Expected Delivery Date	Actual Delivery Date
1 P0011	2	6/21/2025	SUP001	\$168.75	6/25/2025	6/24/2025
2 P0012	1	6/22/2025	SUP003	\$135.00	6/26/2025	6/25/2025
3 P0013	1	6/23/2025	SUP002	\$300.00	6/27/2025	6/26/2025
4 P0014	1	6/24/2025	SUP005	\$40.00	6/28/2025	6/27/2025
5 P0015	1	6/25/2025	SUP004	\$90.00	6/29/2025	6/28/2025
6 P0016	1	6/26/2025	SUP006	\$100.00	7/1/2025	6/29/2025
7 P0017	1	6/27/2025	SUP007	\$190.00	7/2/2025	6/30/2025
8 P0018	1	6/28/2025	SUP008	\$550.00	7/3/2025	7/1/2025
9 P0019	1	6/29/2025	SUP009	\$105.00	7/4/2025	7/2/2025
10 P0020	1	6/30/2025	SUP010	\$250.00	7/5/2025	7/3/2025
11 P0021	1	6/25/2025	SUP001	\$2,500.00	6/27/2025	6/28/2025

Medical Inventory ... Products Purchase Orders Order Items Inventory Transactions Suppliers Reports Dashboards

Order Items All

12 items • Sorted by Order Item Id • Updated a few seconds ago

	Order Item Id ↑	Amount	Product ID	Purchase Order ID	Quantity Received	Quantity Ordered	Unit Price
1	OI001	\$125.00	P001	PO011	10	10	\$12.50
2	OI002	\$43.75	P002	PO011	5	5	\$8.75
3	OI003	\$135.00	P003	PO012	3	3	\$45.00
4	OI004	\$300.00	P004	PO013	2	2	\$150.00
5	OI005	\$40.00	P005	PO014	20	20	\$2.00
6	OI006	\$90.00	P006	PO015	6	6	\$15.00
7	OI007	\$100.00	P007	PO016	4	4	\$25.00
8	OI008	\$190.00	P008	PO017	2	2	\$95.00
9	OI009	\$550.00	P009	PO018	1	1	\$550.00
10	OI010	\$105.00	P010	PO019	3	3	\$35.00
11	OI011	\$250.00	P001	PO020	20	20	\$12.50
12	OI012	\$2,500.00	P001	PO021	200	200	\$12.50

Medical Inventory ... Products Purchase Orders Order Items Inventory Transactions Suppliers Reports Dashboards

Inventory Transactions All

10 items • Sorted by Transaction Id • Updated a few seconds ago

	Transaction Id ↑	Purchase Order ID	Transaction Date	Transaction Type	Total Order Cost
1	TXN001	PO011	6/24/2025	Issue	\$168.75
2	TXN002	PO012	6/26/2025	Adjustment	\$135.00
3	TXN003	PO013	6/28/2025	Receipt	\$300.00
4	TXN004	PO014	6/29/2025	Issue	\$40.00
5	TXN005	PO015	7/1/2025	Adjustment	\$90.00
6	TXN006	PO016	7/2/2025	Receipt	\$100.00
7	TXN007	PO017	7/3/2025	Issue	\$190.00
8	TXN008	PO018	7/4/2025	Adjustment	\$550.00
9	TXN009	PO019	7/5/2025	Issue	\$105.00
10	TXN010	PO020	7/6/2025	Adjustment	\$250.00

Medical Inventory ... Products Purchase Orders Order Items Inventory Transactions Suppliers Reports Dashboards

Suppliers All

10 items • Sorted by Supplier Id • Updated a few seconds ago

	Supplier Id ↑	Supplier Name	Contact Person	Phone Number	Email	Address
1	SUP001	MediCare Distributors	Anil Verma	+91-9876543210	anil@medicare.com	123 MG Road, Mumbai
2	SUP002	HealthFirst Supplies	Rita Singh	+91-9823456789	rita@healthfirst.com	456 Park Street, Delhi
3	SUP003	Wellness Pharma	Kunal Mehta	+91-9765432180	kunal@wellnesspharma.com	78 Wellness Ave, Pune
4	SUP004	BioPlus Traders	Priya Desai	+91-9654321870	priya@bioplus.com	56 Biotech Lane, Hyderabad
5	SUP005	SafeMeds Co.	Raj Malhotra	+91-9543218760	raj@safemeds.com	90 Safe Street, Bangalore
6	SUP006	TrustChem Ltd.	Sneha Kapoor	+91-9432109876	sneha@trustchem.com	44 Chemist Market, Ahmedabad
7	SUP007	PureLife Medics	Vikram Rao	+91-9321098765	vikram@purelifemedics.com	66 Medlife Road, Chennai
8	SUP008	Healix Enterprises	Meera Iyer	+91-9210987654	meera@healix.com	33 Health Blvd, Kolkata
9	SUP009	CureWell Partners	Amit Sharma	+91-9109876543	amit@curewell.com	22 Pharma Circle, Jaipur
10	SUP010	Zenith Pharmaceuticals	Divya Nair	+91-9008765432	divya@zenithpharma.com	11 Zenith Heights, Lucknow

## 2. Flows and Automation Executed

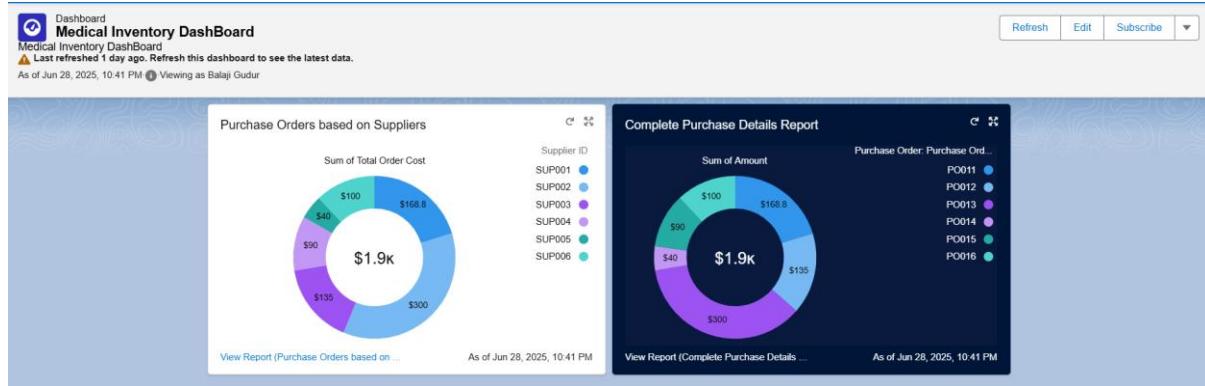
**Screenshot 1: Purchase Order Validation Rule**

**Screenshot 2: Actual Delivery Date Updating Flow**

```

graph TD
    Start((Record-Triggered Flow)) --> Get[Get Purchase Record]
    Get --> Assignment[Assignment]
    Assignment --> Update[Updating Purchasing Order]
    Update --> End((End))
  
```

### 3. Dashboard and Reports



**Report: Purchase Orders with Order Items and Product ID**

**Complete Purchase Details Report**

Total Records: 12 Total Order Count: 12 Total Quantity Received: 276 Total Amount: \$4,428.75

Supplier ID	Actual Delivery Date	Purchase Order: Purchase Order Id	Product ID: Product Id	Product ID: Product Name	Order Count	Quantity Received	Amount
SUP001 (3)	6/24/2025 (2)	PO011 (2)	P002	Vitamin C Tablets	2	5	\$43.75
			P001	Paracetamol 500mg	2	10	\$125.00
					2	15	\$168.75
<b>Subtotal</b>					2	15	\$168.75
SUP002 (1)	6/28/2025 (1)	PO021 (1)	P001	Paracetamol 500mg	1	200	\$2,500.00
					1	200	\$2,500.00
					1	200	\$2,500.00
<b>Subtotal</b>					3	215	\$2,668.75
SUP002 (1)	6/26/2025 (1)	PO013 (1)	P004	Digital Thermometer	1	2	\$300.00
					1	2	\$300.00
					1	2	\$300.00
<b>Subtotal</b>					1	2	\$300.00
SUP003 (1)	6/25/2025 (1)	PO012 (1)	P003	Hand Sanitizer	1	3	\$135.00
					1	3	\$135.00
					1	3	\$135.00
<b>Subtotal</b>					1	3	\$135.00
SUP004 (1)	6/28/2025 (1)	PO015 (1)	P006	Ibuprofen 400mg	1	6	\$90.00

Row Counts: 12 Detail Rows: 12 Subtotals: 12 Grand Total: 12

**Medical Inventory ...**

Products: Purchase Orders: Order Items: Inventory Transactions: Suppliers: Reports: Dashboards:

**Report: Purchase Orders**

**Purchase Orders based on Suppliers**

Total Records: 11 Total Order Count: 12 Total Total Order Cost: \$4,428.75

Supplier ID	Purchase Order: Purchase Order Id	Sum of Order Count	Sum of Total Order Cost	Record Count
SUP001	P0011	2	\$168.75	1
	P0021	1	\$2,500.00	1
SUP002	P0013	1	\$300.00	1
	P0012	1	\$135.00	1
SUP003	P0015	1	\$90.00	1
	P0014	1	\$40.00	1
SUP005	P0016	1	\$100.00	1
	P0017	1	\$190.00	1
SUP008	P0018	1	\$550.00	1
	P0019	1	\$105.00	1
SUP010	P0020	1	\$250.00	1
	Total	12	\$4,428.75	11



## 4. Trigger Validation

```
File Edit Debug Test Workspace Help < >
CalculateTotalAmountTrigger.apxc CalculateTotalAmountHandler.apxc Go To
Code Coverage: None API Version: 64
1 public class CalculateTotalAmountHandler {
2     public static void calculateTotal(List<Order_Item__c> newItems, List<Order_Item__c> oldItems, Boolean isInsert, Boolean isUpdate, Boolean isDelete, Boolean isUndelete) {
3         Set<Id> parentIds = new Set<Id>();
4         if (isInsert || isUpdate || isUndelete) {
5             for (Order_Item__c ordItem : newItems) {
6                 parentIds.add(ordItem.Purchase_Order__c);
7             }
8         }
9         if (isUpdate || isDelete) {
10            for (Order_Item__c ordItem : oldItems) {
11                parentIds.add(ordItem.Purchase_Order__c);
12            }
13        }
14        Map<Id, Decimal> purchaseToUpdateMap = new Map<Id, Decimal>();
15        if (!parentIds.isEmpty()) {
16            List<AggregateResult> aggList = [
17                SELECT Purchase_Order__c, SUM(Amount__c) totalAmount
18                FROM Order_Item__c
19                WHERE Purchase_Order__c IN :parentIds
20                GROUP BY Purchase_Order__c
21            ];
22            for (AggregateResult aggr : aggList) {
23                Id purchaseOrderId = (Id)aggr.get('Purchase_Order__c');
24                Decimal totalAmount = (Decimal)aggr.get('totalAmount');
25                purchaseToUpdateMap.put(purchaseOrderId, totalAmount);
26            }
27            List<Purchase_Order__c> purchaseToUpdate = new List<Purchase_Order__c>();
28            for (Id purchaseorderId : purchaseToUpdateMap.keySet()) {
29                Purchase_Order__c purchaseOrder = new Purchase_Order__c(Id = purchaseorderId, Total_Order_cost__c = purchaseToUpdateMap.get(purchaseorderId));
30                purchaseToUpdate.add(purchaseOrder);
31            }
32            if (!purchaseToUpdate.isEmpty()) {
33                update purchaseToUpdate;
34            }
35        }
36    }
37 }
```

```
File Edit Debug Test Workspace Help < >
CalculateTotalAmountTrigger.apxc CalculateTotalAmountHandler.apxc Go To
Code Coverage: None API Version: 64
1 trigger CalculateTotalAmountTrigger on Order_Item__c (after insert, after update, after delete, after undelete) {
2     CalculateTotalAmountHandler.calculateTotal(Trigger.new, Trigger.old, Trigger.isInsert, Trigger.isUpdate, Trigger.isDelete, Trigger.isUndelete);
3 }
```