

DV CA–Assignment –2

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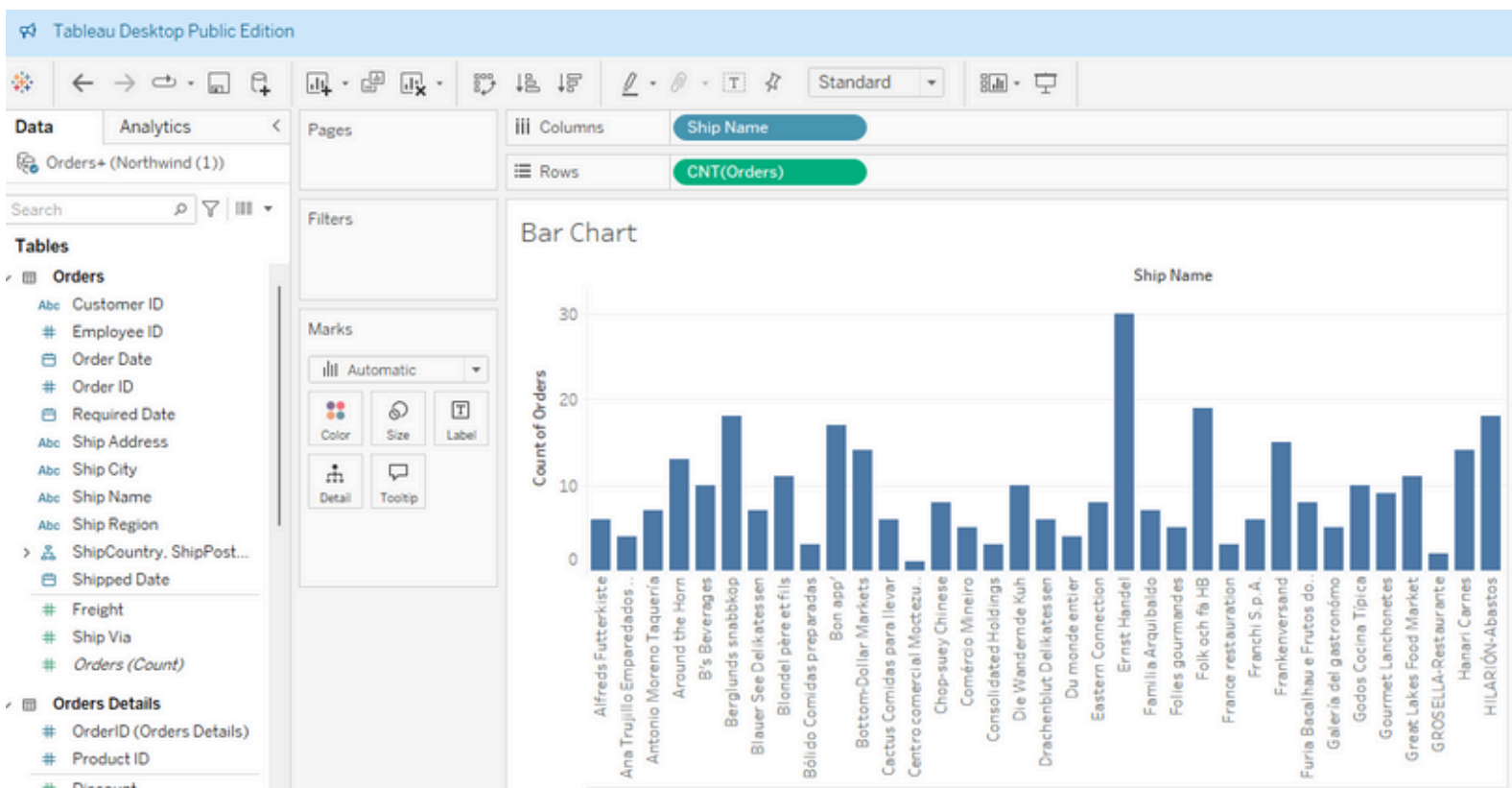
Dataset used:– Northwind

The screenshot displays the Microsoft Excel Data Model interface. On the left, the 'Connections' pane shows 'Northwind (1) Microsoft Excel'. Below it, the 'Sheets' pane lists various tables: Categories, Customers, Employees, Orders, Orders Details, Product, Shippers, and Suppliers. The main area shows a diagram of the 'Orders+' table, which is connected to 'Orders Details', 'Product', 'Suppliers', and 'Shippers'. Below the diagram, a table view of the 'Orders' table is shown, displaying 14 fields and 830 rows. The table includes columns for Order ID, Customer ID, Employee ID, Order Date, Required Date, and Shipped Date. A sample of the data is provided below.

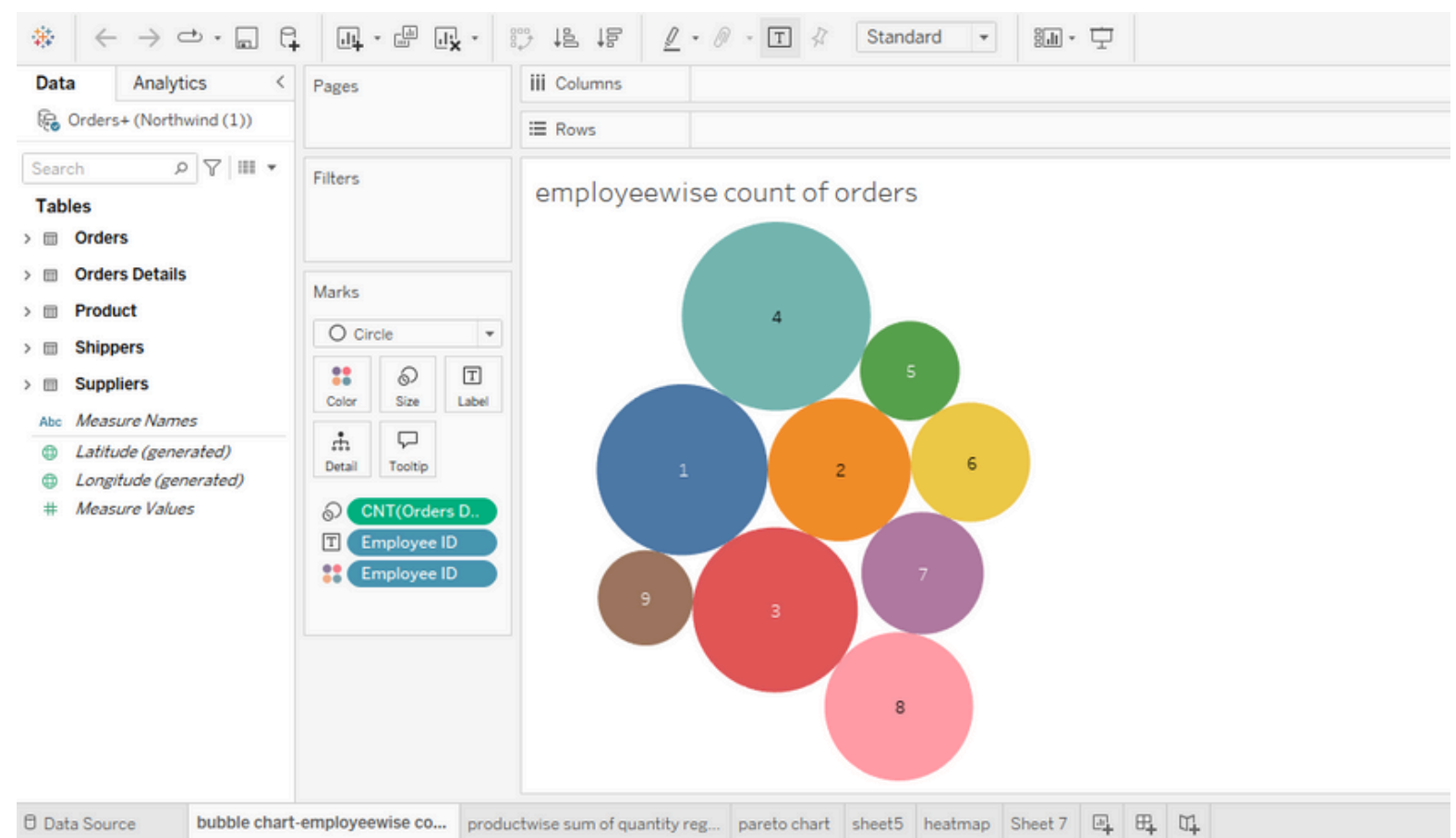
| # | Order ID | Customer ID | Employee ID | Order Date | Required Date | Shipped Date |
|---|----------|-------------|-------------|------------|---------------|--------------|
| 1 | 10248 | WILMK | 5 | 04-07-1996 | 01-08-1996 | 16-07-1996 |
| 2 | 10249 | TRADH | 6 | 05-07-1996 | 16-08-1996 | 10-07-1996 |
| 3 | 10250 | HANAR | 4 | 08-07-1996 | 05-08-1996 | 12-07-1996 |
| 4 | 10251 | VICTE | 3 | 08-07-1996 | 05-08-1996 | 15-07-1996 |

Grains:–

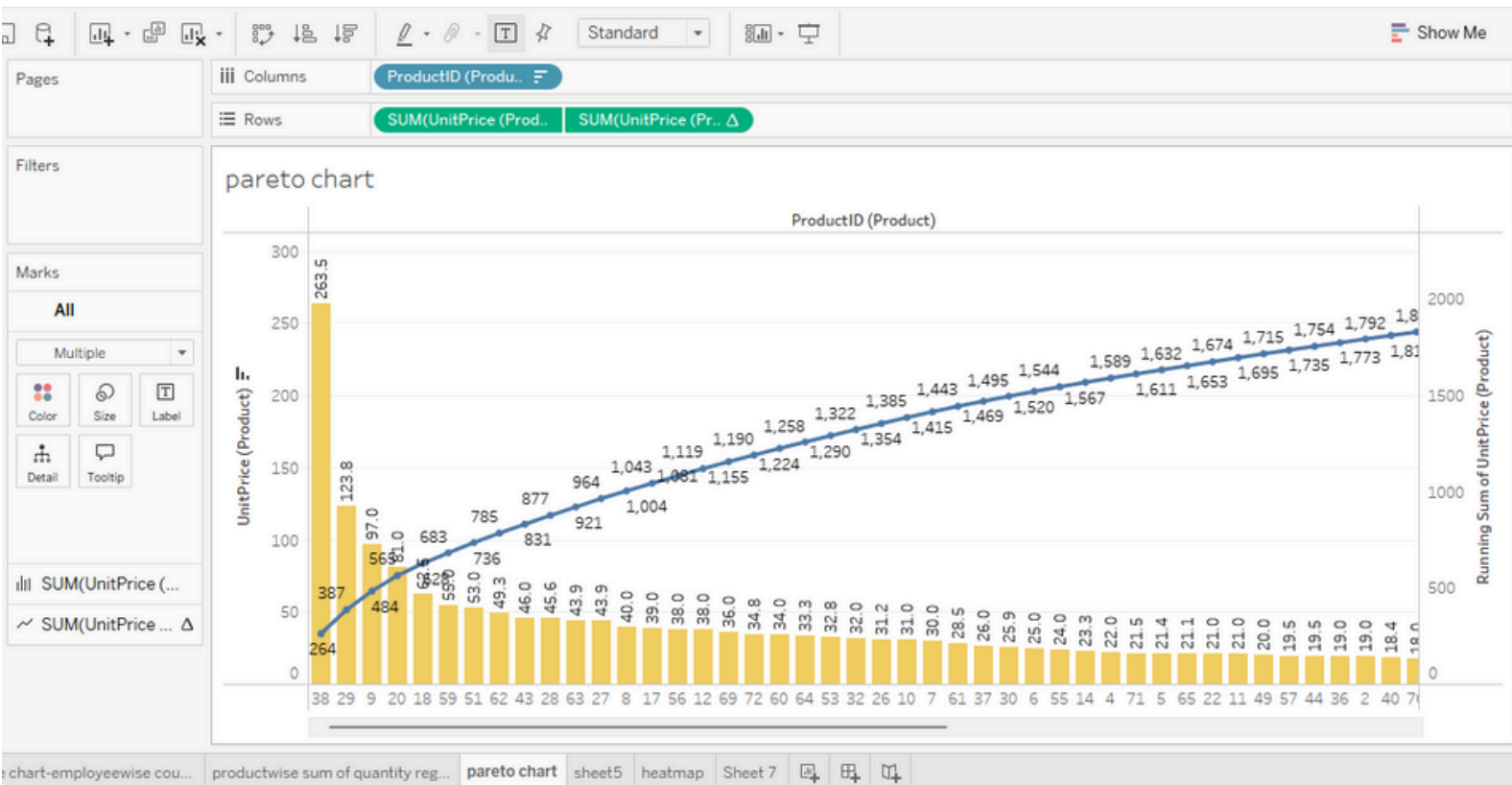
1) Bar chart :– Count of orders shipwise



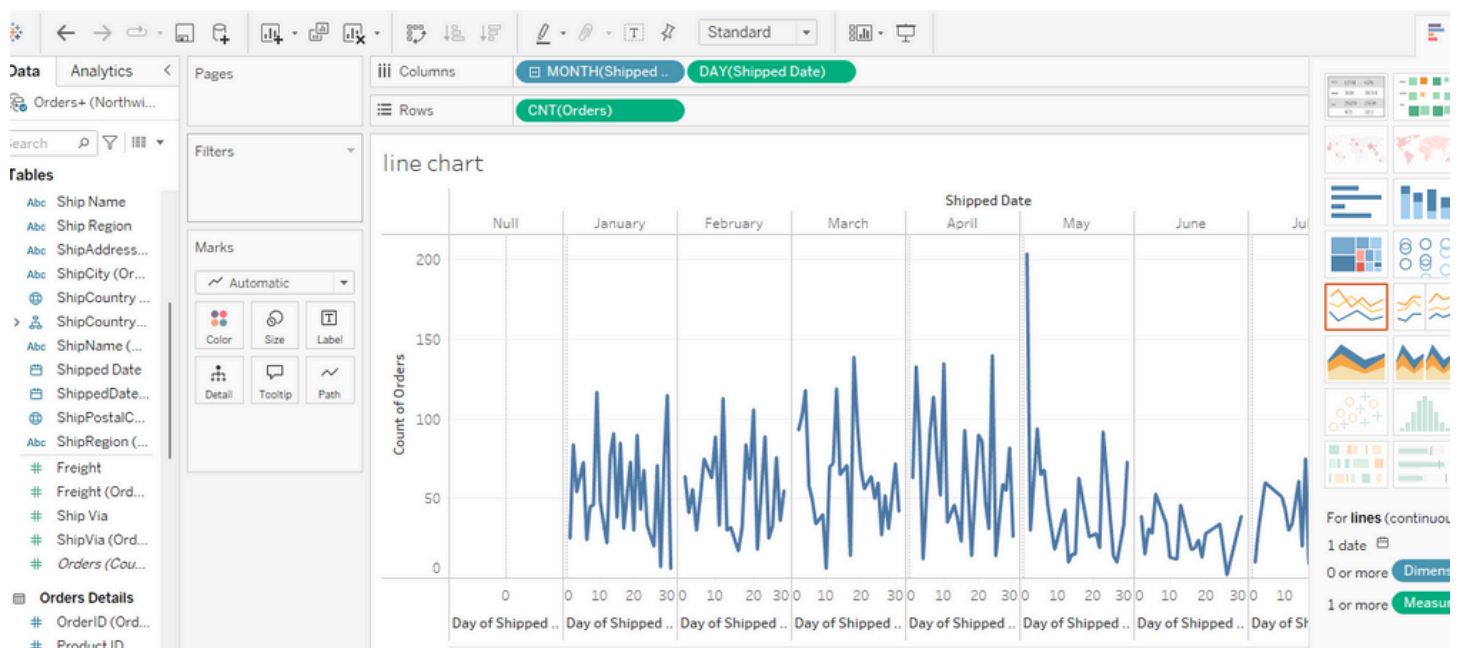
2) Bubble Chart :- Count of orders according to EmployeeID



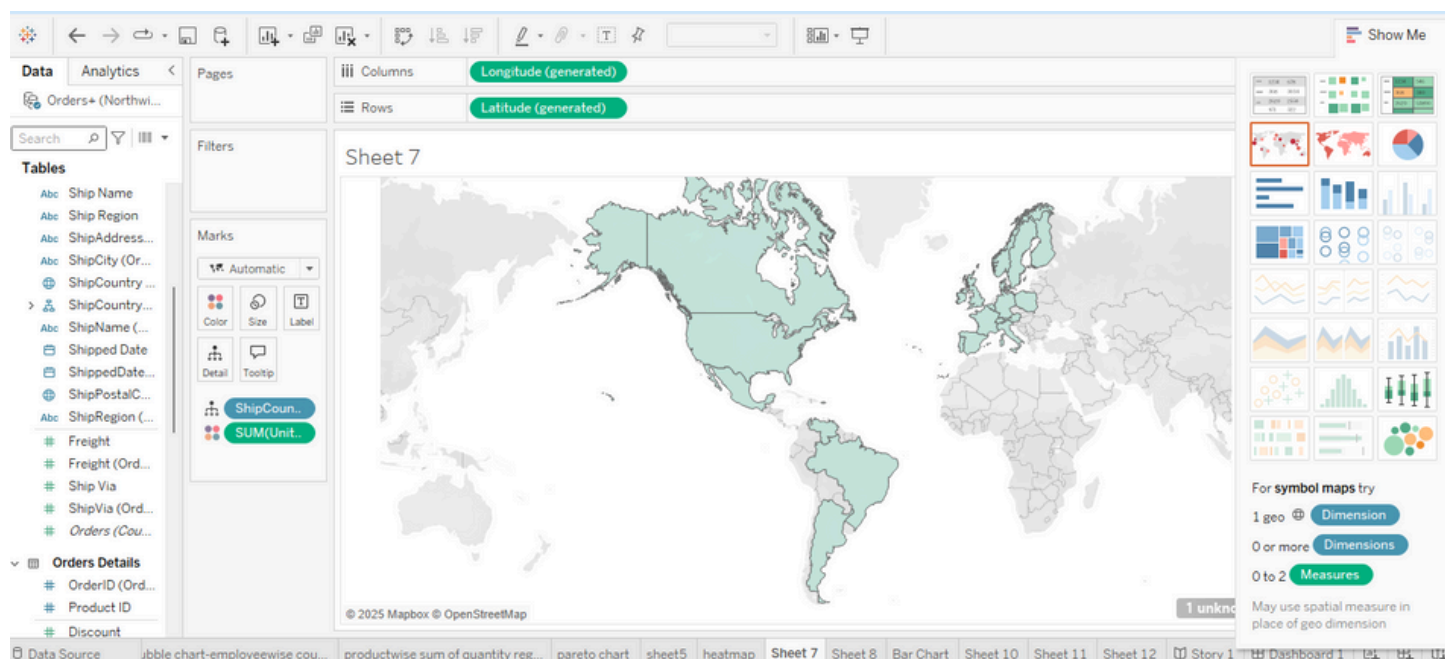
3)Pareto chart



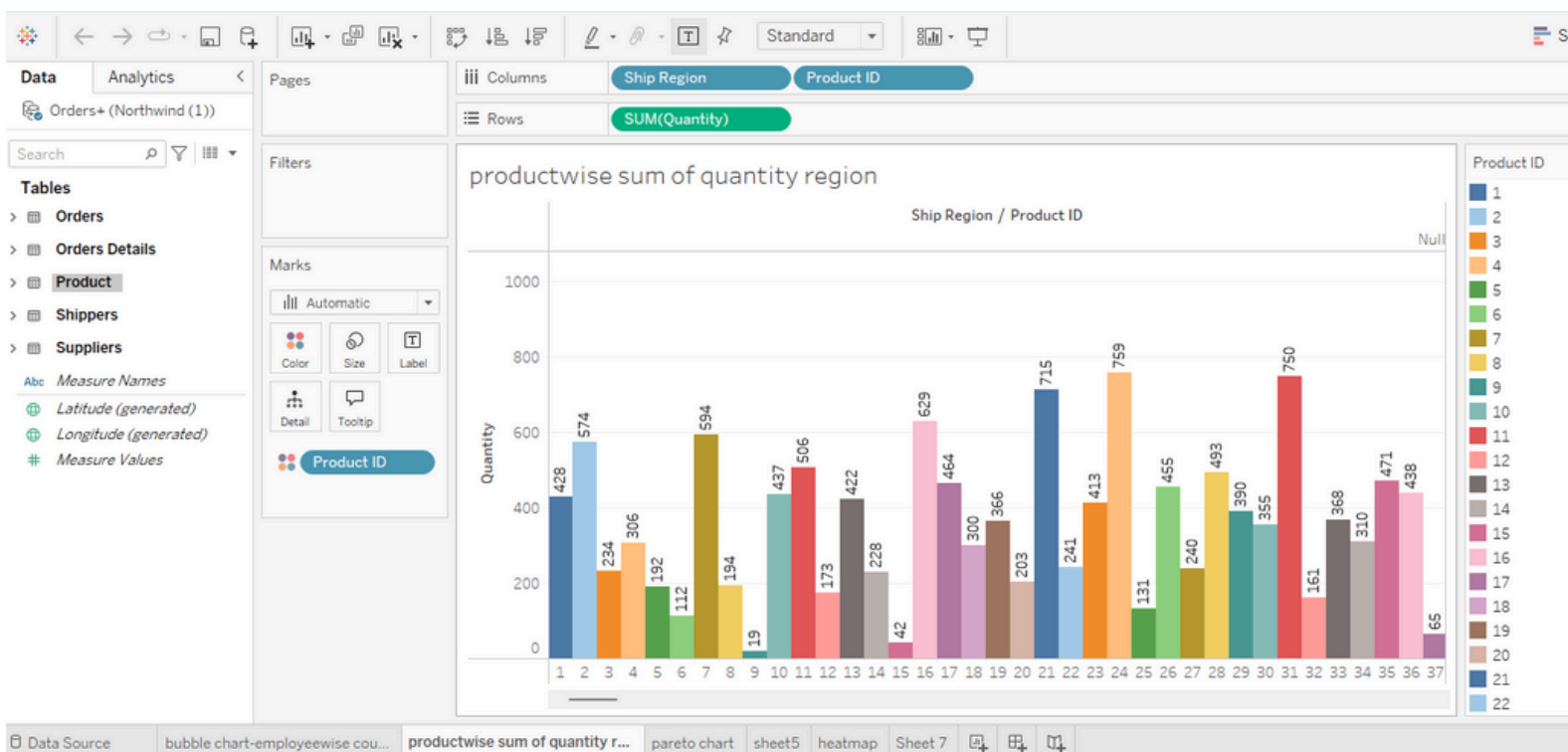
4)Line Chart :-count of order day wise shipped



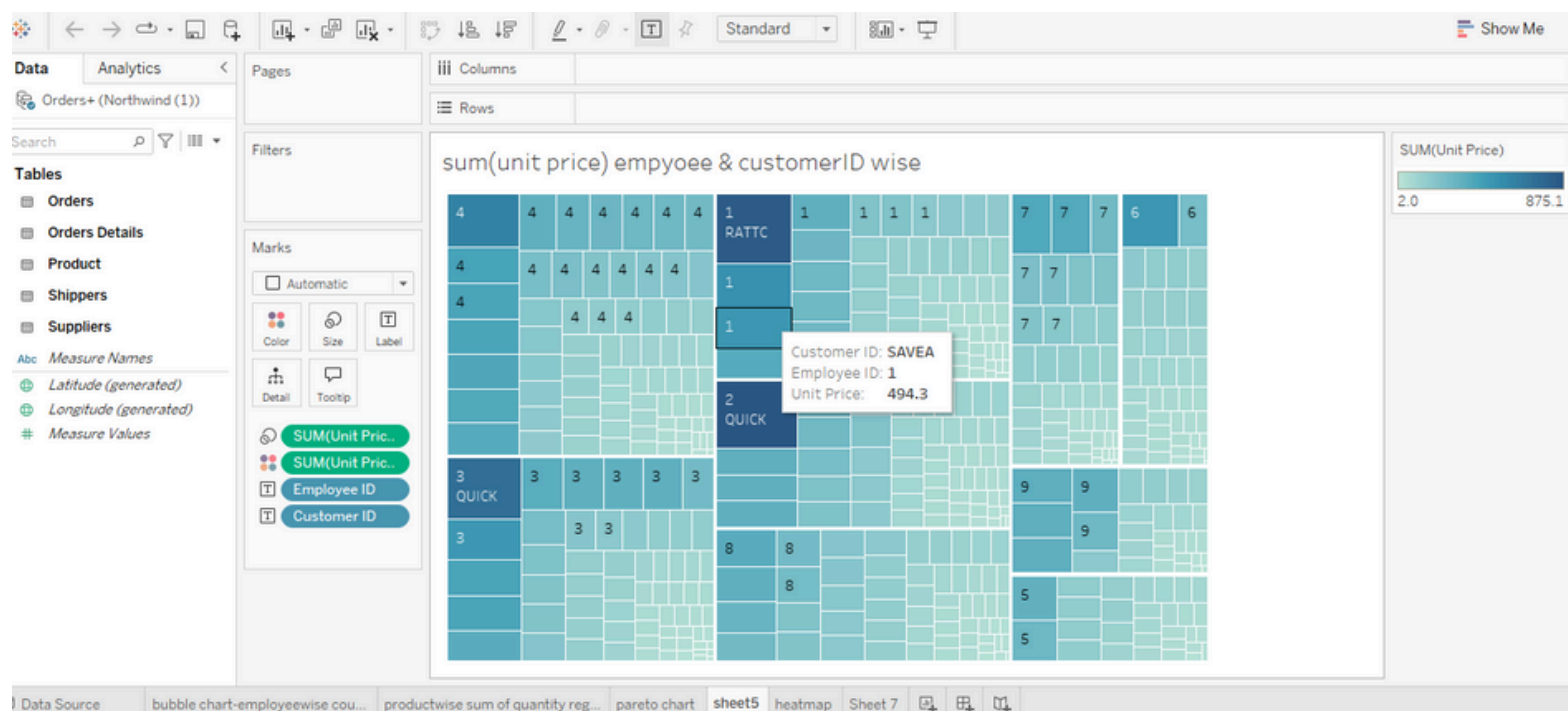
5) Sum(unit price) with respect to the country shipped



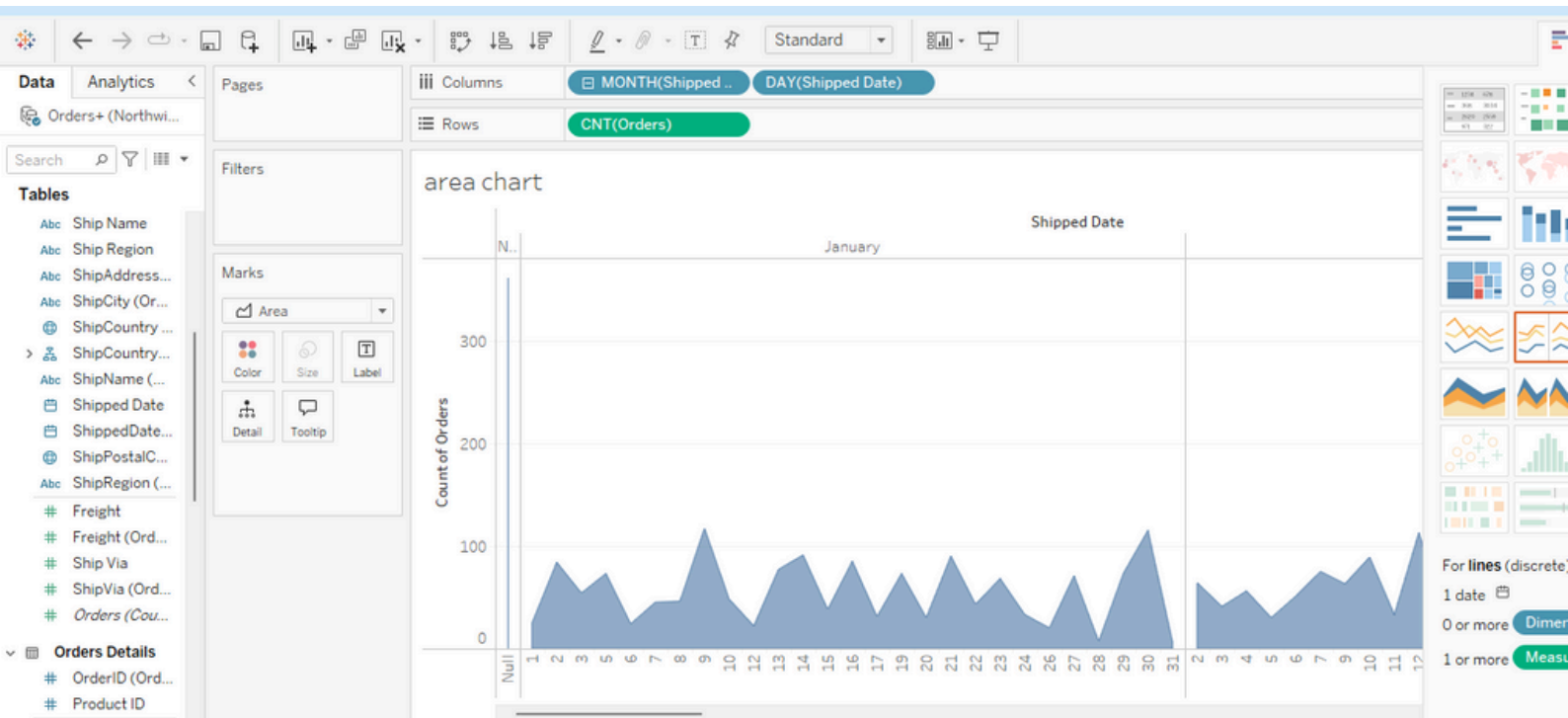
6) Histogram :- Region wise sum(quantity) of products



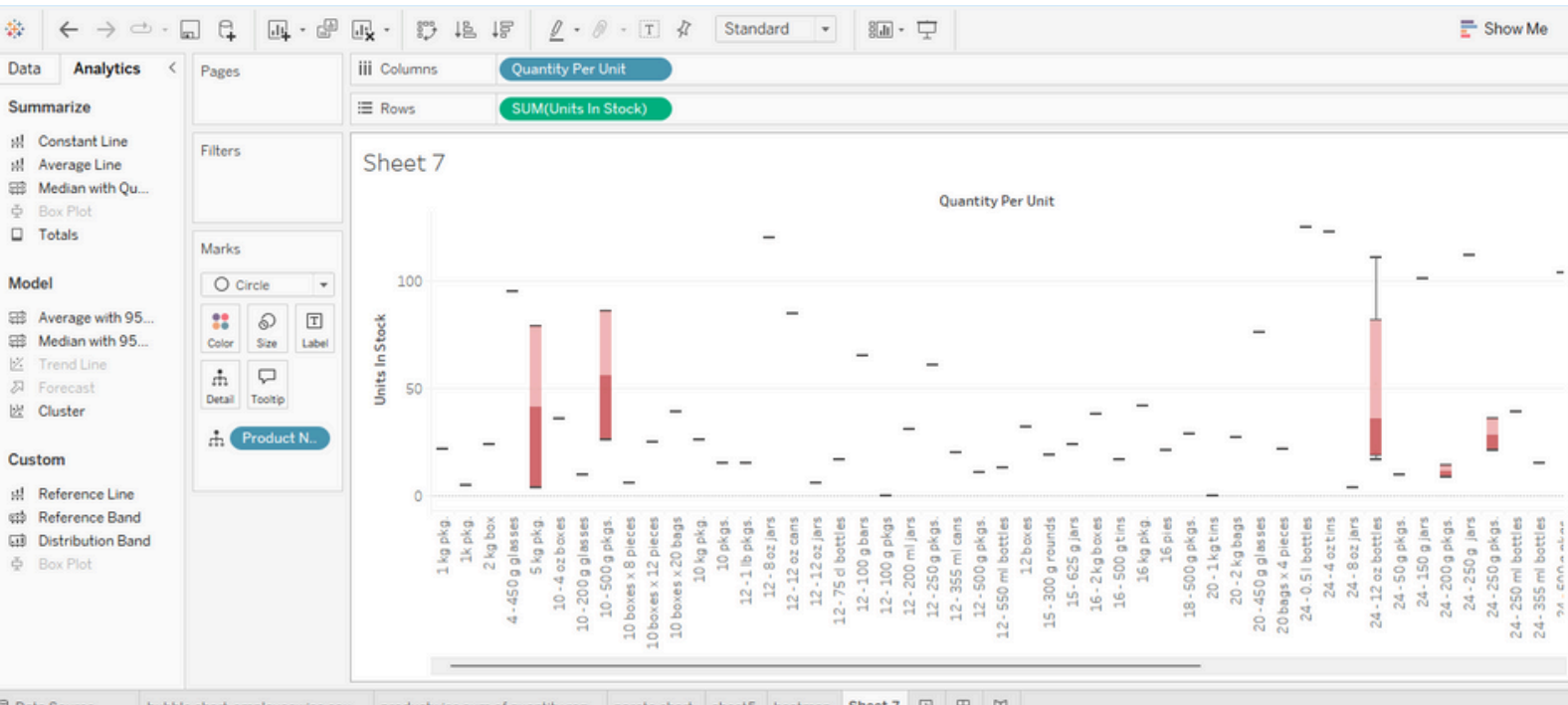
7) Tree Map :- Sum of product employee & customerID wise



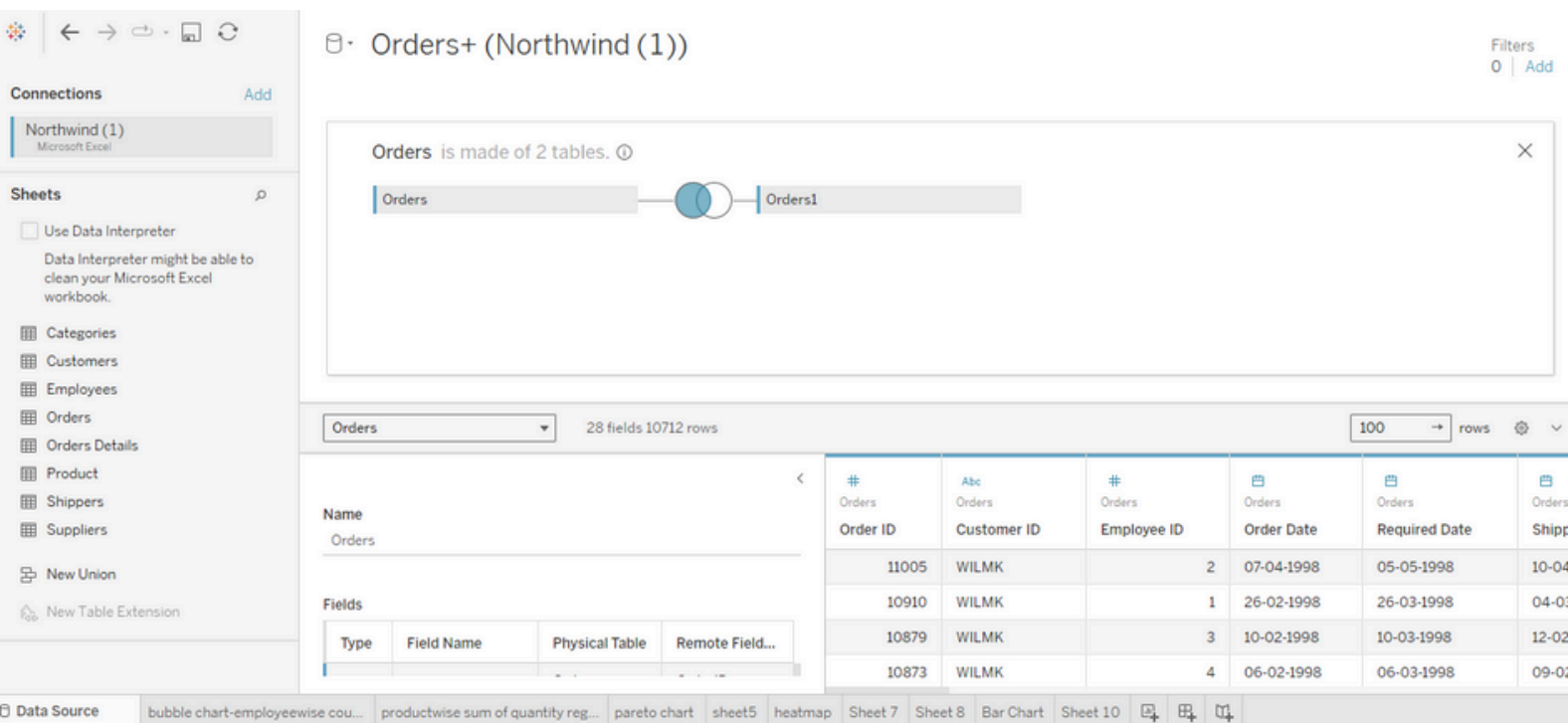
8)area chart :-



9)Box-plot :-sum of Units in stock per unit quantity.



10) Left join :-



11) Full Outer Join :-

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Connections Add

Northwind (1)
Microsoft Excel

Sheets 🔍

☐ Use Data Interpreter
Data Interpreter might be able to clean your Microsoft Excel workbook.

Categories
Customers
Employees
Orders
Orders Details
Product
Shippers
Suppliers

New Union
New Table Extension

Orders+ (Northwind (1)) Filters 0 | Add

Orders is made of 2 tables. ⓘ

Orders — Join — Orders1

Join ×

| | Inner | Left | Right | Full Outer |
|---------------------|-------|------|-------|------------|
| Data Source | | | | |
| Ship City | = | | | |
| | | | | |
| Add new join clause | | | | |

Orders1

Ship City (Orders1)

100 rows

Name
Orders

Fields

| Type | Field Name | Physical Table | Remote Field... |
|------|---------------|----------------|-----------------|
| # | Order ID | Orders | |
| Abc | Customer ID | Orders | |
| # | Employee ID | Orders | |
| 📅 | Order Date | Orders | |
| 📅 | Required Date | Orders | |
| 📅 | Shipped Date | Orders | |

| # | Abc | # | 📅 | 📅 | 📅 |
|----------|-------------|-------------|------------|---------------|--------------|
| Orders | Orders | Orders | Orders | Orders | Orders |
| Order ID | Customer ID | Employee ID | Order Date | Required Date | Shipped Date |
| 10739 | VINET | 3 | 12-11-1997 | 10-12-1997 | 17-11-1997 |
| 10737 | VINET | 2 | 11-11-1997 | 09-12-1997 | 18-11-1997 |
| 10295 | VINET | 2 | 02-09-1996 | 30-09-1996 | 10-09-1996 |
| 10274 | VINET | 6 | 06-08-1996 | 03-09-1996 | 16-08-1996 |

12) Calculated fields :-

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Data **Analytics** Pages

Orders+ (Northwi...

Tables

- Product
 - Category ID
 - Discontinued
 - Product Name
 - ProductID (P...
 - Quantity Per ...
 - Supplier ID
 - Reorder Level
 - UnitPrice (Pr...
 - Units In Stock
 - Units On Ord...
 - Product (Co...
- Shippers
- Suppliers
 - Measure Names
 - Calculated Fields**
 - Latitude (gener...
 - Longitude (gen...
 - Measure Values

Filters

Marks

Automatic

Color Size Text

Detail Tooltip

SUM(Unit Pr...)

SUM(Calcul...)

Columns

Rows

Order ID

Sheet 8

Order ID

| |
|-------|
| 10248 |
| 10249 |
| 10250 |
| 10251 |
| 10252 |
| 10253 |
| 10254 |
| 10255 |
| 10256 |
| 10257 |
| 10258 |
| 10259 |
| 10260 |
| 10261 |
| 10262 |
| 10263 |
| 10264 |
| 10265 |
| 10266 |
| 10267 |

28.8

74.7

22.4

71.4

46.2

22.9

43.2

30.4

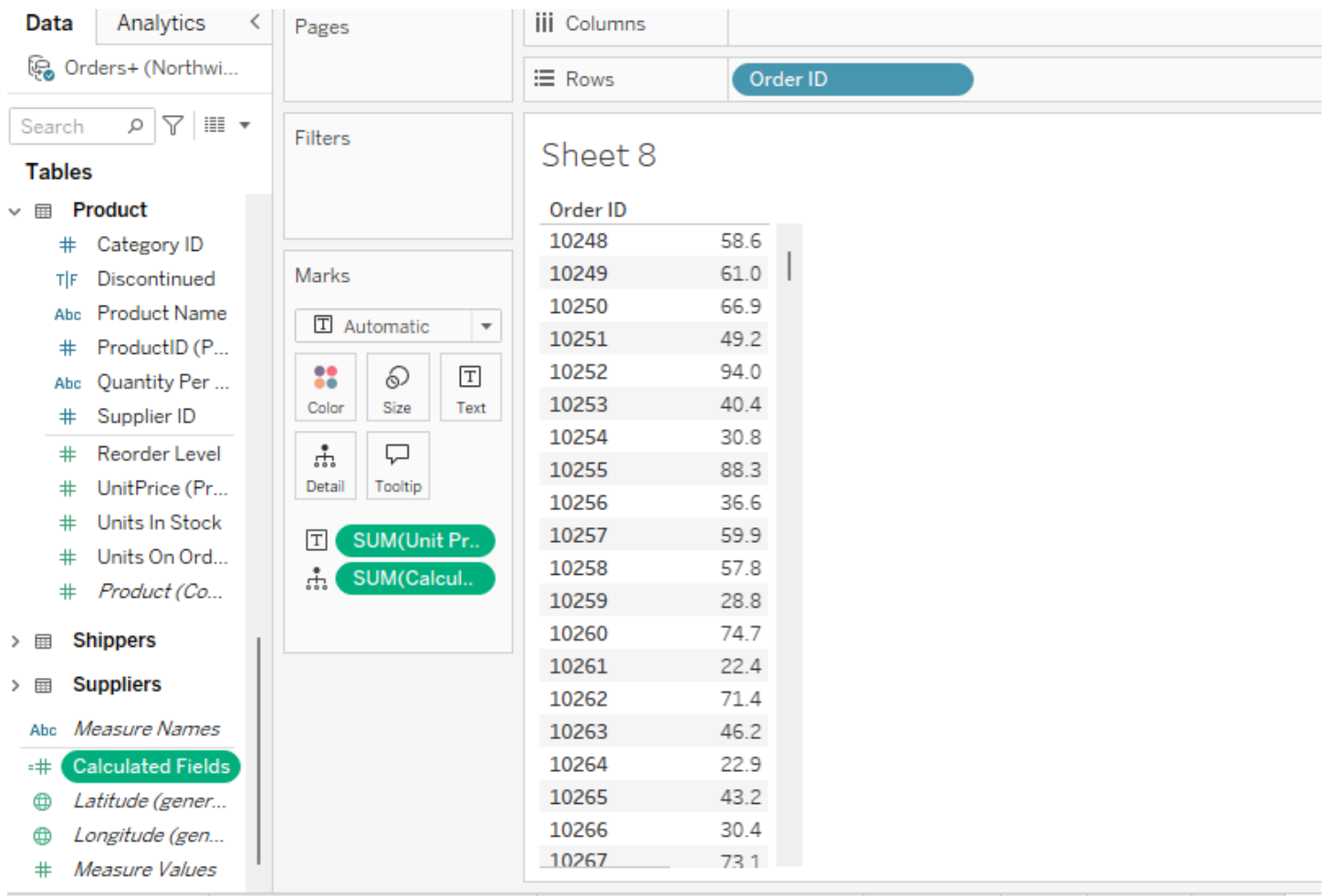
73.1

Calculated Fields ×

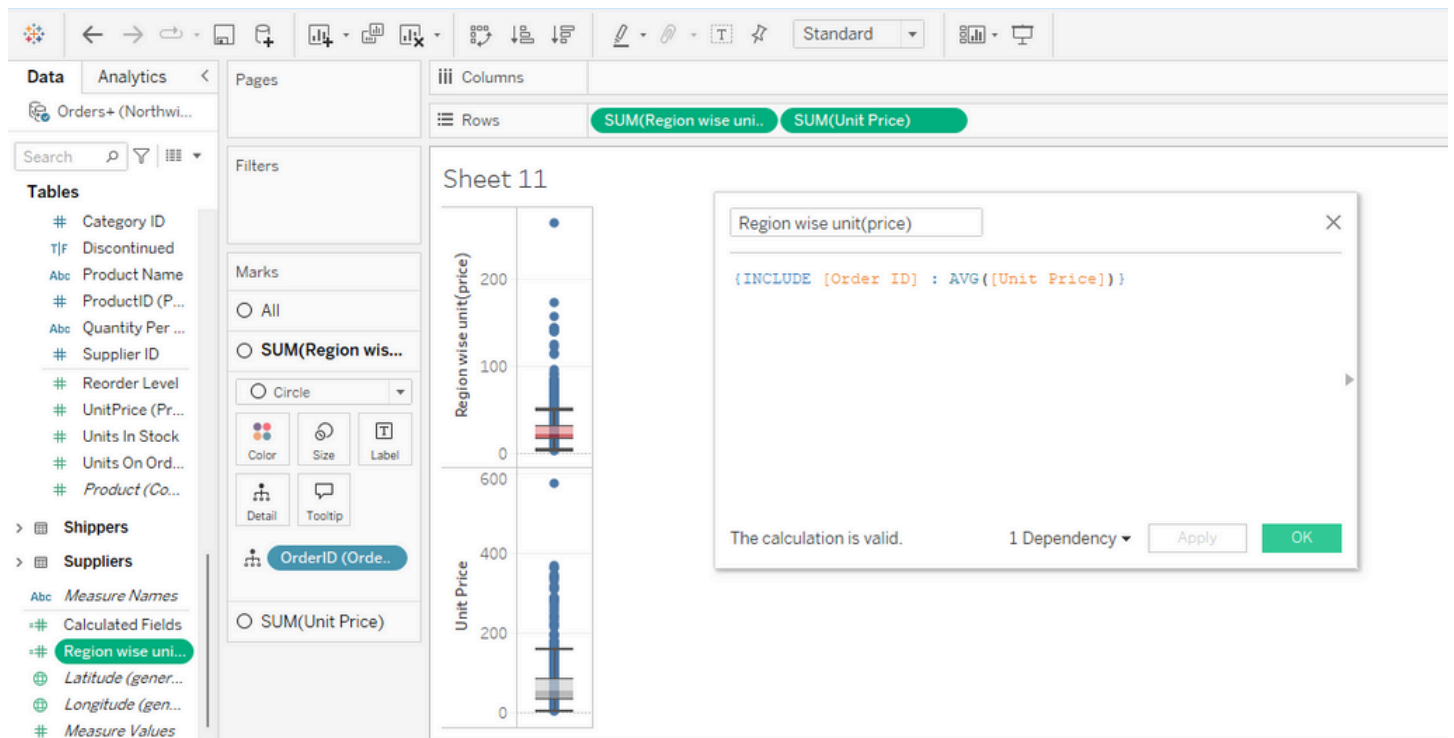
[Order ID]/[Unit Price]

The calculation is valid. 1 Dependency Apply OK

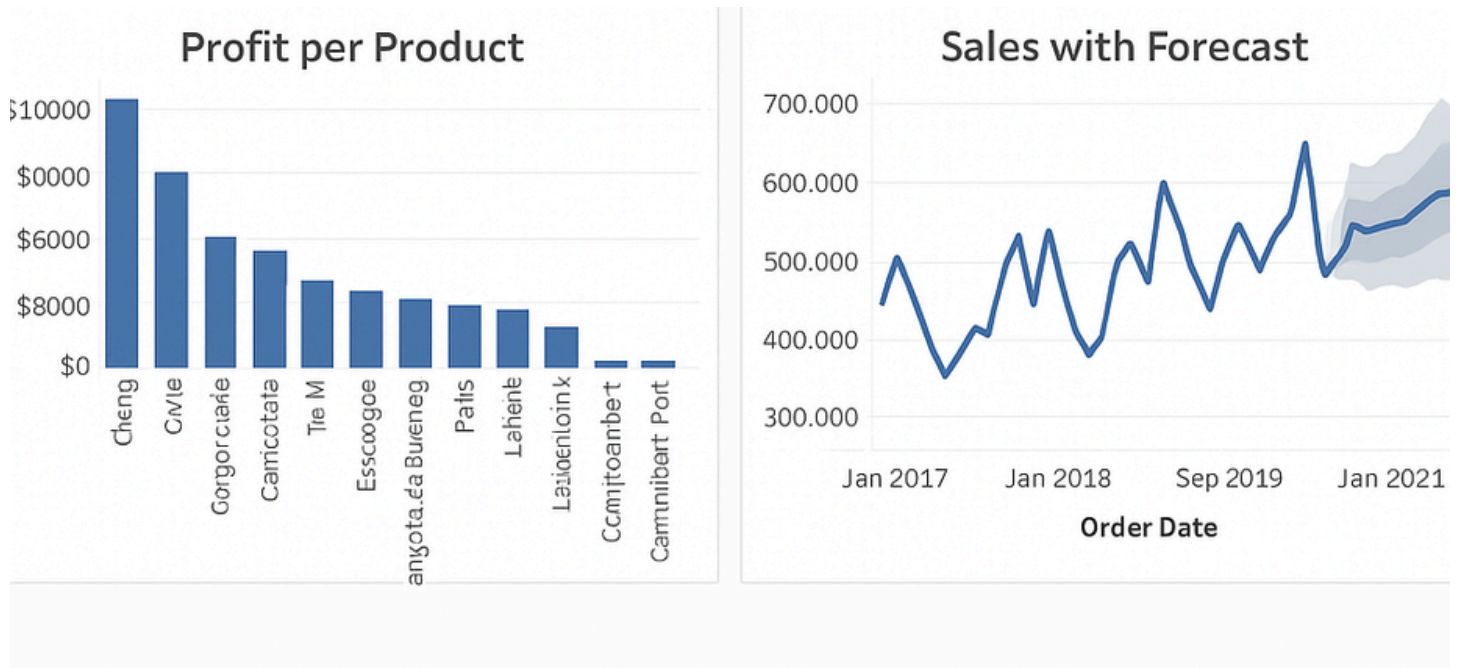
Data Source | bubble chart-employeewise cou... | productwise sum of quantity reg... | pareto chart | sheet5 | heatmap | Sheet 7 | **Sheet 8** | Bar Chart | Sheet 10 | Sheet 11 | 📄



13)Level of details(LOD):-(using calculated fields)



14)Forecasting :-

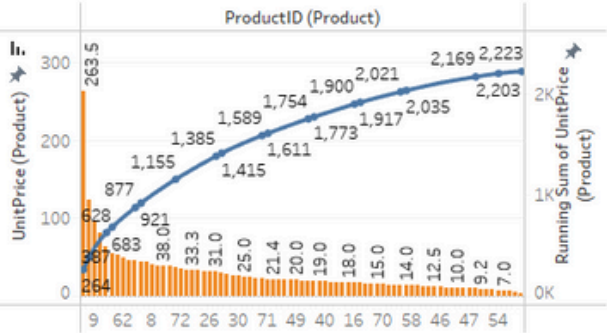


15)Creating a dashboard



16)Story board

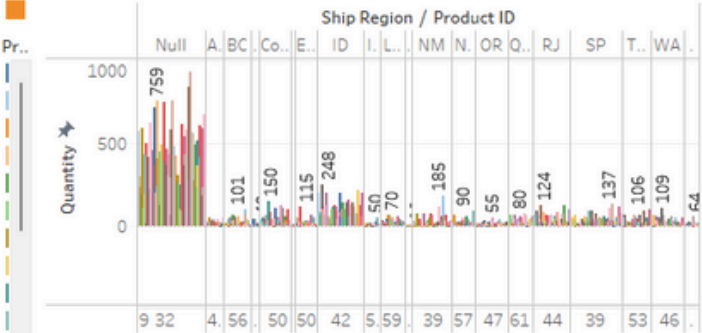
pareto chart



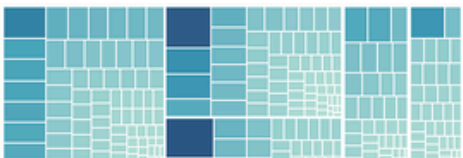
Bar Chart



productwise sum of quantity region



sum(unit price) employee & customerID wise



THANK YOU!!