

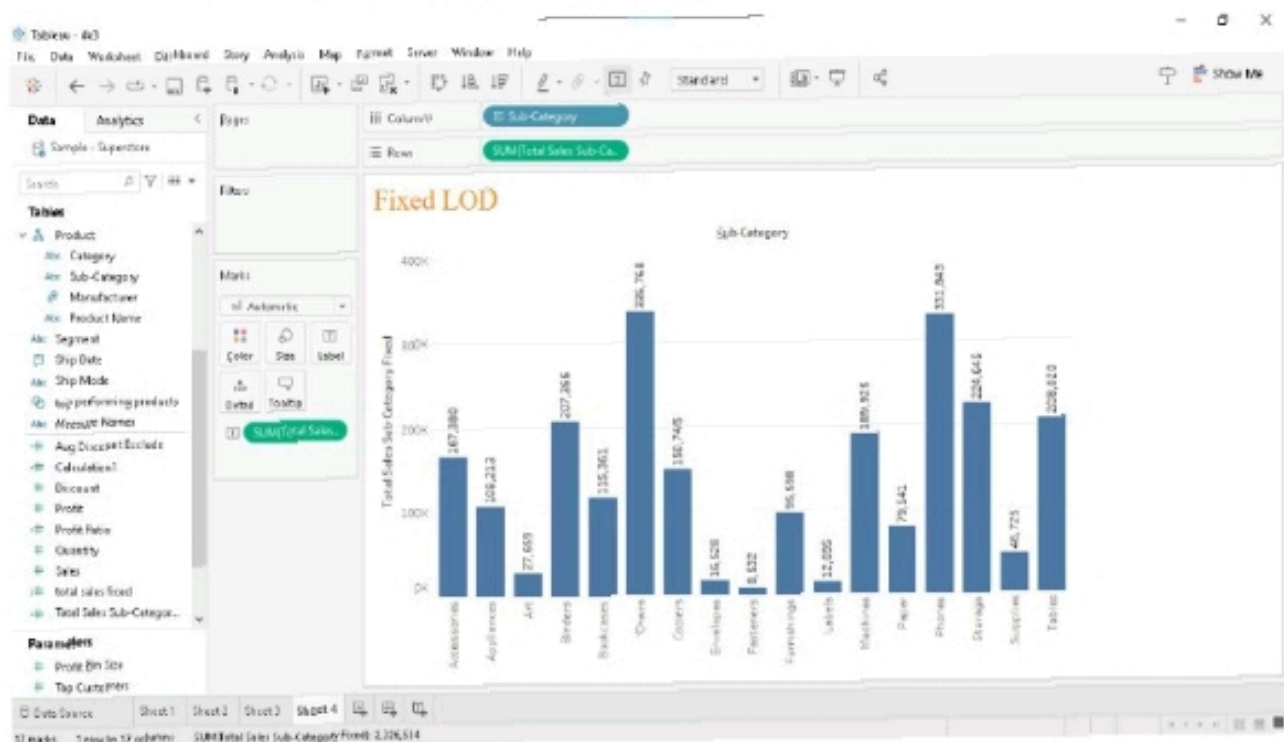
1. Fixed LOD Expression with a Different Category:

Objective:

Create a Fixed LOD expression to calculate the total sales across all sub-categories regardless of any filters applied.

Steps:

1. Identify the dimension or dimensions for which you want to calculate the Fixed LOD expression. In this case, let's use "Sub-Category."
2. Create a Fixed LOD expression for total sales across sub-categories:
 - Right-click on a blank space in the Data pane and select "Create Calculated Field."
 - Name the calculated field (e.g., Total Sales Sub-Category Fixed).
 - Use the below formula
 - $\{ \text{FIXED } [\text{Sub-Category}] : \text{SUM}([\text{Sales}]) \}$



2. Exclude LOD Expression:

Objective:

Create an Exclude LOD expression to calculate the average discount across all orders, excluding the "Technology" category.

Steps:

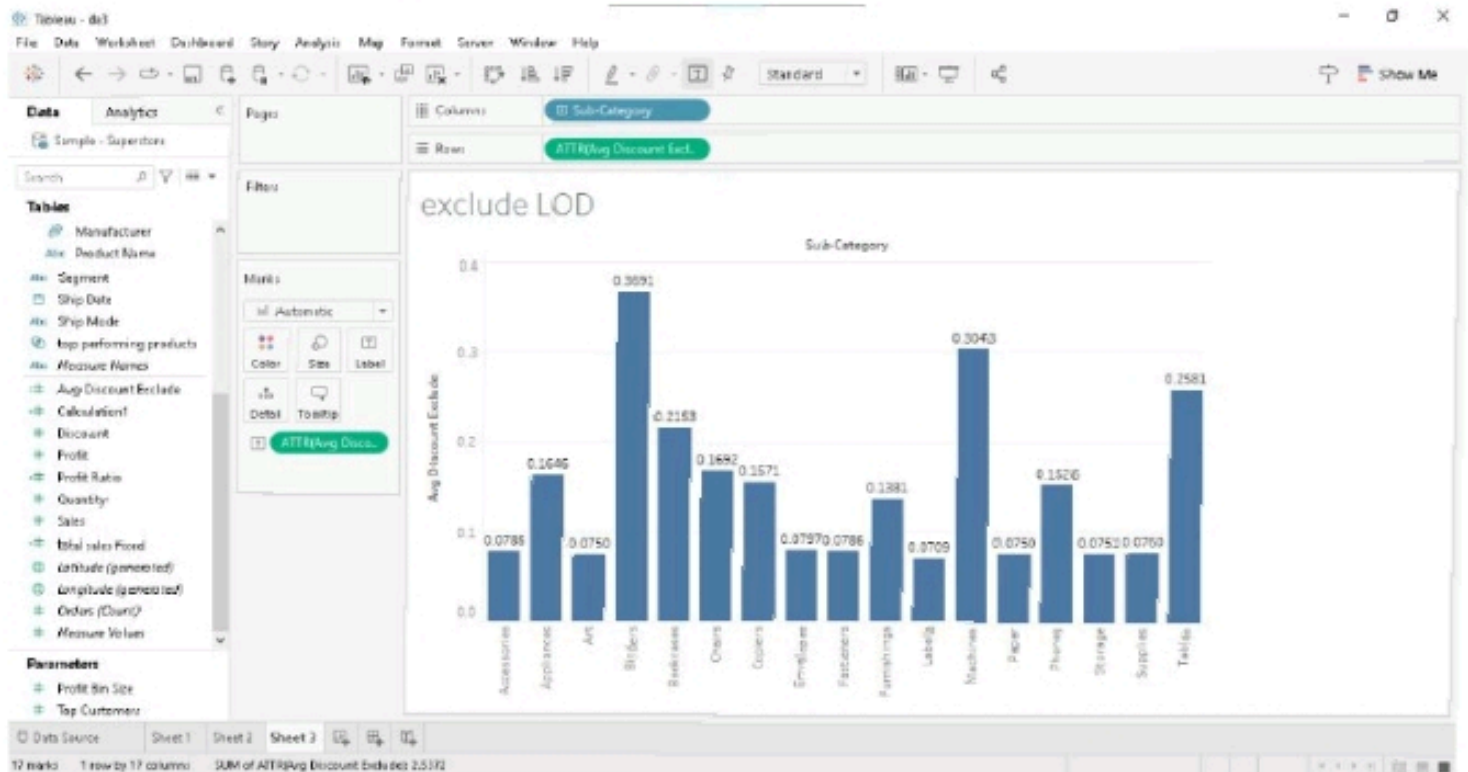
1. Open Tableau and connect to the Superstore dataset.
2. Identify the dimension or dimensions for which you want to calculate the exclude LOD expression. In this case, let's exclude the "Technology" category.

3. Create an Exclude LOD expression for average discount:

- Right-click on a blank space in the Data pane and select "Create Calculated Field."
- Name the calculated field (e.g., Avg Discount Exclude).
- Use the following formula:

```
{ EXCLUDE [Category]: AVG([Discount]) }
```

- Click OK to create the calculated field.



Map Visualization 1: Symbol Map

Objective:

Create a symbol map to visualize the distribution of sales across different cities.

Steps:

1. Connect to your dataset:

- Open Tableau and connect to your dataset containing geographical data.

2. Drag and Drop Latitude and Longitude:

- Drag the latitude and longitude dimensions to the Rows and Columns shelves.

3. Add a Measure for Symbol Size:

- Drag the "Sales" measure to the Size shelf. This will determine the size of the symbols on the map.

4. Convert to Symbol Map:

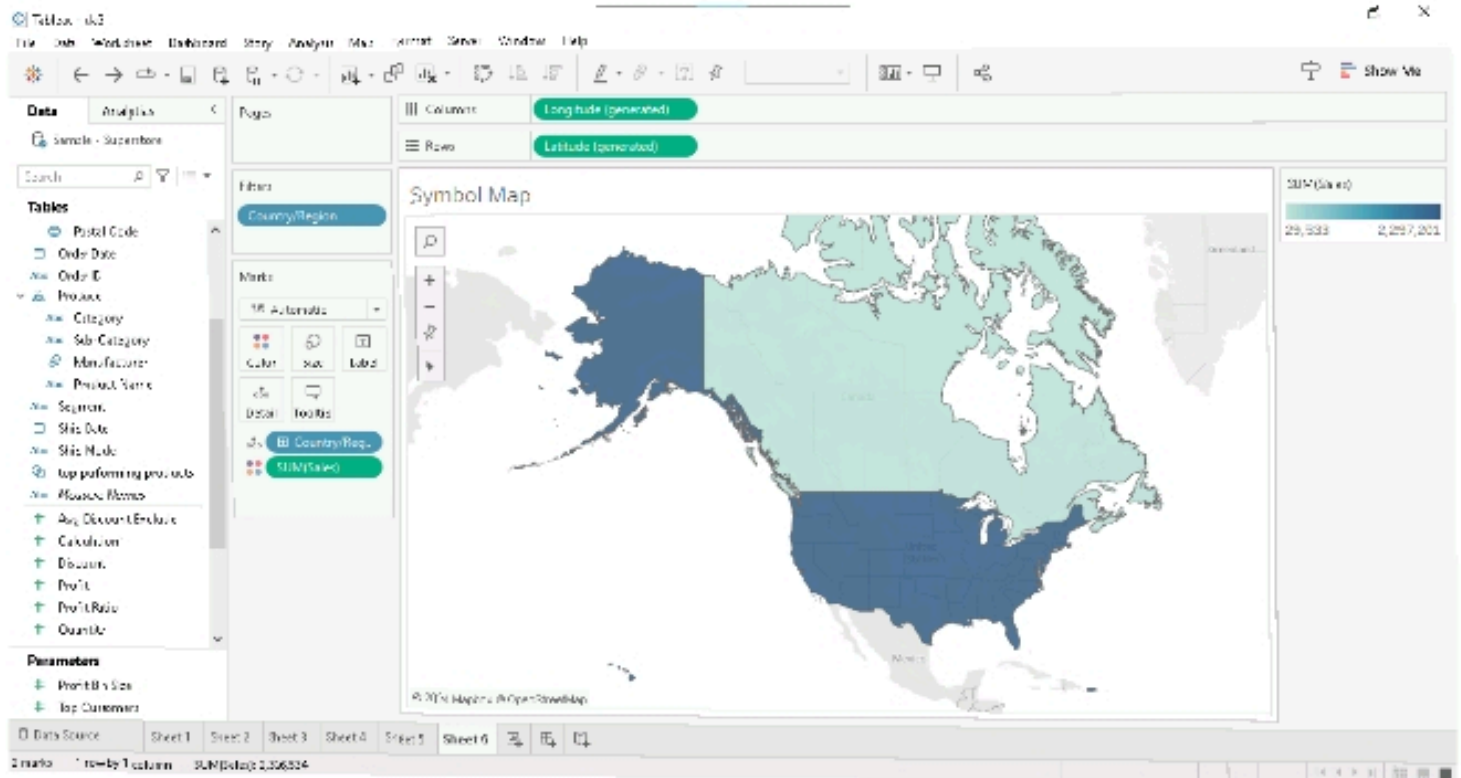
- In the "Show Me" menu, choose the "Symbol Map" option.

5. Adjust Symbol Properties:

- Customize the symbol properties, such as color and shape, based on your preference. You can use the "Color" and "Shape" shelves.

6. Add Tooltip:

- Drag relevant dimensions (e.g., City, Country) to the Tooltip shelf to display additional information when hovering over symbols.



Map Visualization 2: Filled Map

1. Connect to your dataset:

- Open Tableau and connect to your dataset containing geographical data.

2. Drag and Drop Region Dimension:

- Drag the dimension representing regions (e.g., Country, State) to the Rows shelf.

3. Add a Measure for Color Intensity:

- Drag the "Sales" measure to the Color shelf. This will determine the color intensity of the filled regions.

4. Convert to Filled Map:

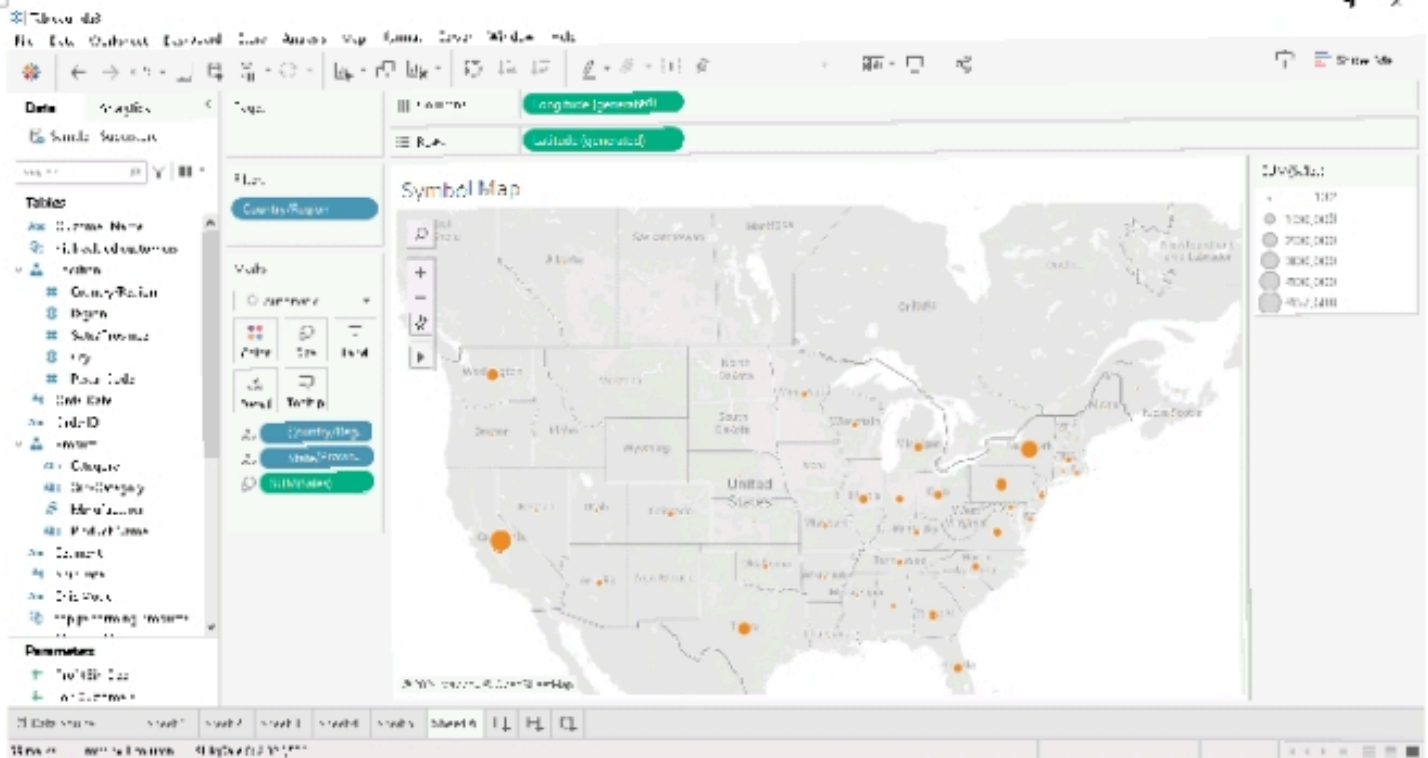
- In the "Show Me" menu, choose the "Filled Map" option.

5. Customize Color Palette:

- Adjust the color palette based on your preference using the "Edit Colors" option.

6. Add Tooltip:

- Drag relevant dimensions (e.g., Country, State) to the Tooltip shelf to display additional information when hovering over regions.



1: Create a Top N Parameter

Objective:

Create a parameter to dynamically select the top N sub-categories based on sales.

1. Open your Tableau workbook.
2. Go to the Data pane.
3. Right-click on an empty space and choose "Create Parameter."
4. Name the parameter (e.g., Top N Sub-Categories).
5. Set the Data Type to Integer.
6. Set the Current Value to a default (e.g., 5) and define a range (e.g., 1 to 10).
7. Click OK to create the parameter.

Step 2: Use the Parameter in Calculated Field

Objective:

Create a calculated field to filter sub-categories based on the Top N parameter.

1. Go to the Data pane.
2. Right-click on an empty space and choose "Create Calculated Field."
3. Name the calculated field (e.g., Top N Sub-Categories Filter).
4. Use the following formula:

`IF RANK(SUM([Sales])) <= [Top N Sub-Categories] THEN [Sub-Category] END`

This formula uses the RANK function to rank sub-categories based on sales and filters only the top N sub-categories.

5. Click OK to create the calculated field.

Step 3: Apply the Filter

Objective:

Apply the calculated field as a filter to show only the top N sub-categories.

1. Drag the newly created calculated field (Top N Sub-Categories Filter) to the Filters shelf.
2. In the Filter dialog, choose the sub-categories you want to include (based on the calculated field).
3. Click OK to apply the filter.

Step 4: Utilize Dynamic Dimension Parameters

Objective:

Create a dynamic parameter to switch between dimensions in your visualization.

1. Go to the Data pane.
2. Right-click on an empty space and choose "Create Parameter."
3. Name the parameter (e.g., Dimension Selector).
4. Set the Data Type to String.
5. In the "List of Values" section, enter the dimensions you want to include (e.g., "Category," "Sub-Category," etc.).
6. Click OK to create the parameter.

Step 5: Use the Dynamic Dimension Parameter

Objective:

Create a calculated field to dynamically switch between dimensions based on the parameter.

1. Go to the Data pane.
2. Right-click on an empty space and choose "Create Calculated Field."
3. Name the calculated field (e.g., Dynamic Dimension).
4. Use the following formula:

```
CASE [Dimension Selector] WHEN 'Category' THEN [Category] WHEN 'Sub-Category' THEN [Sub-Category] --  
Add more cases for additional dimensions if needed END
```

This formula uses a CASE statement to switch between dimensions based on the selected parameter value.

5. Click OK to create the calculated field.

Step 6: Use the Dynamic Dimension in Your Visualizations

Objective:

Use the dynamic dimension calculated field in your visualizations.

1. Replace the existing dimension in your visualizations with the "Dynamic Dimension" calculated field.
2. Change the "Dimension Selector" parameter value to see the dynamic switch between dimensions.

Tableau 40

File Edit View Window Help Data Sources Map Fields Layers Marks Card

Tableau 40

Data Analytics

Sample Success

Tableau 40

Tables

Table 1

Table 2

Table 3

Table 4

Table 5

Table 6

Table 7

Table 8

Table 9

Table 10

Table 11

Table 12

Table 13

Table 14

Table 15

Table 16

Table 17

Table 18

Table 19

Table 20

Table 21

Table 22

Table 23

Table 24

Table 25

Table 26

Table 27

Table 28

Table 29

Table 30

Table 31

Table 32

Table 33

Table 34

Table 35

Table 36

Table 37

Table 38

Table 39

Table 40

Table 41

Table 42

Table 43

Table 44

Table 45

Table 46

Table 47

Table 48

Table 49

Table 50

Table 51

Table 52

Table 53

Table 54

Table 55

Table 56

Table 57

Table 58

Table 59

Table 60

Table 61

Table 62

Table 63

Table 64

Table 65

Table 66

Table 67

Table 68

Table 69

Table 70

Table 71

Table 72

Table 73

Table 74

Table 75

Table 76

Table 77

Table 78

Table 79

Table 80

Table 81

Table 82

Table 83

Table 84

Table 85

Table 86

Table 87

Table 88

Table 89

Table 90

Table 91

Table 92

Table 93

Table 94

Table 95

Table 96

Table 97

Table 98

Table 99

Table 100

Table 101

Table 102

Table 103

Table 104

Table 105

Table 106

Table 107

Table 108

Table 109

Table 110

Table 111

Table 112

Table 113

Table 114

Table 115

Table 116

Table 117

Table 118

Table 119

Table 120

Table 121

Table 122

Table 123

Table 124

Table 125

Table 126

Table 127

Table 128

Table 129

Table 130

Table 131

Table 132

Table 133

Table 134

Table 135

Table 136

Table 137

Table 138

Table 139

Table 140

Table 141

Table 142

Table 143

Table 144

Table 145

Table 146

Table 147

Table 148

Table 149

Table 150

Table 151

Table 152

Table 153

Table 154

Table 155

Table 156

Table 157

Table 158

Table 159

Table 160

Table 161

Table 162

Table 163

Table 164

Table 165

Table 166

Table 167

Table 168

Table 169

Table 170

Table 171

Table 172

Table 173

Table 174

Table 175

Table 176

Table 177

Table 178

Table 179

Table 180

Table 181

Table 182

Table 183

Table 184

Table 185

Table 186

Table 187

Table 188

Table 189

Table 190

Table 191

Table 192

Table 193

Table 194

Table 195

Table 196

Table 197

Table 198

Table 199

Table 200

Table 201

Table 202

Table 203

Table 204

Table 205

Table 206

Table 207

Table 208

Table 209

Table 210

Table 211

Table 212

Table 213

Table 214

Table 215

Table 216

Table 217

Table 218

Table 219

Table 220

Table 221

Table 222

Table 223

Table 224

Table 225

Table 226

Table 227

Table 228

Table 229

Table 230

Table 231

Table 232

Table 233

Table 234

Table 235

Table 236

Table 237

Table 238

Table 239

Table 240

Table 241

Table 242

Table 243

Table 244

Table 245

Table 246

Table 247

Table 248

Table 249

Table 250

Table 251

Table 252

Table 253

Table 254

Table 255

Table 256

Table 257

Table 258

Table 259

Table 260

Table 261

Table 262

Table 263

Table 264

Table 265

Table 266

Table 267

Table 268

Table 269

Table 270

Table 271

Table 272

Table 273

Table 274

Table 275

Table 276

Table 277

Table 278

Table 279

Table 280

Table 281

Table 282

Table 283

Table 284

Table 285

Table 286

Table 287

Table 288

Table 289

Table 290

Table 291

Table 292

Table 293

Table 294

Table 295

Table 296

Table 297

Table 298

Table 299

Table 300

Table 301

Table 302

Table 303

Table 304

Table 305

Table 306

Table 307

Table 308

Table 309

Table 310

Table 311

Table 312

Table 313

Table 314

Table 315

Table 316