



SNS COLLEGE OF TECHNOLOGY

Coimbatore-37.

An Autonomous Institution



COURSE NAME : 19CSE311- Data Visualization

CASE STUDY: VISUAL ANALYTICS - TREE DIAGRAM

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Data Visualization- Tree diagram

- The tree diagram displays the hierarchical structure of your data.
- A common use is to display an organizational chart, but it can be used to visualize or explore any data broken down into multiple levels.
- A multi-level hierarchy showing countries and territories, which can then be expanded & collapsed, or drilled up & down between the levels.

Multiple hierarchies, which are also each presented as one or more levels in the diagram.

- They can also be expanded and collapsed like the levels of a single hierarchy.



Creating a tree diagram

ADD / EDIT

Share | Data Visualization | Components | Note | Notification | Filter | Def Templa

DIAGRAM | TREEMAP | RELATIONSHIPS

Diagram | Treemap | Relationship Diagram | Sankey Diagram | **Tree Diagram** | Chord Diagram



Data Analysis Panel - Metric Set

Edit Visualization

Metric Set 2

MEASURES

+ click to add, or drop a measure

ROWS (NODES)

TerritoryID (Territory Name) [edit] [filter] [refresh]

+ click to add, or drop a hierarchy

SLICERS

+ click to add, or drop a hierarchy

COLUMNS

+ click to add, or drop a hierarchy





Data Analysis Panel - Metric Set

Edit Visualization

Metric Set 2

MEASURES

click to add, or drop a measure

ROWS (NODES)

- TerritoryID (Territory Name)
- FirstName

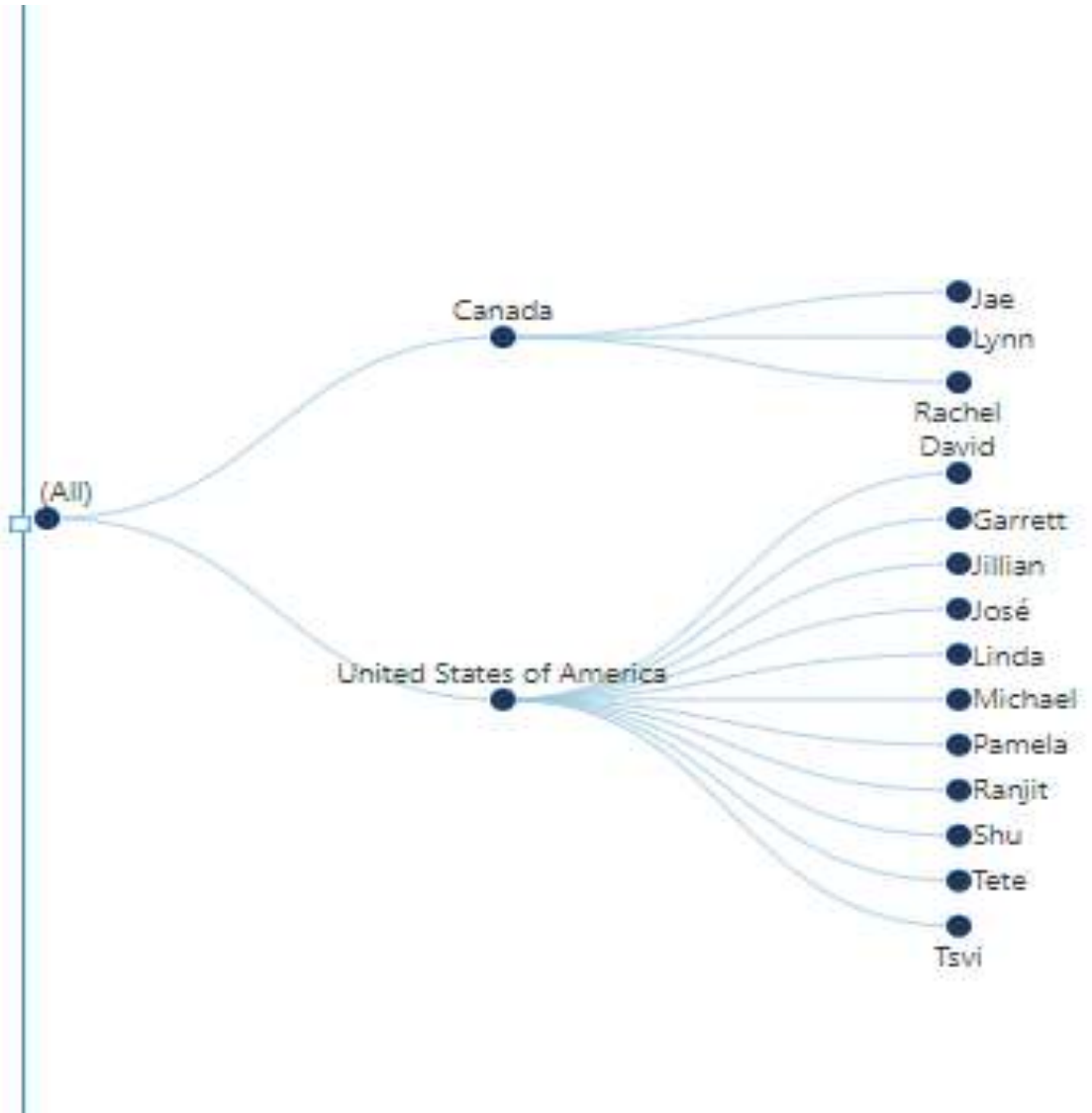
click to add, or drop a hierarchy

SLICERS

click to add, or drop a hierarchy

COLUMNS

click to add, or drop a hierarchy





Expanding and collapsing





Change node color and size

Data Analysis Panel - Metric Set

Edit Visualization

Metric Set 2

MEASURES

click to add, or drop a measure

ROWS (NODES)

| | | | |
|------------------------------|---|---|---|
| TerritoryID (Territory Name) | ✎ | ✕ | 0 |
| FirstName | ✎ | ✕ | 0 |

click to add, or drop a hierarchy

SLICERS

click to add, or drop a hierarchy

COLUMNS

click to add, or drop a hierarchy



EXAMPLE

Data Analysis Panel - Visualization

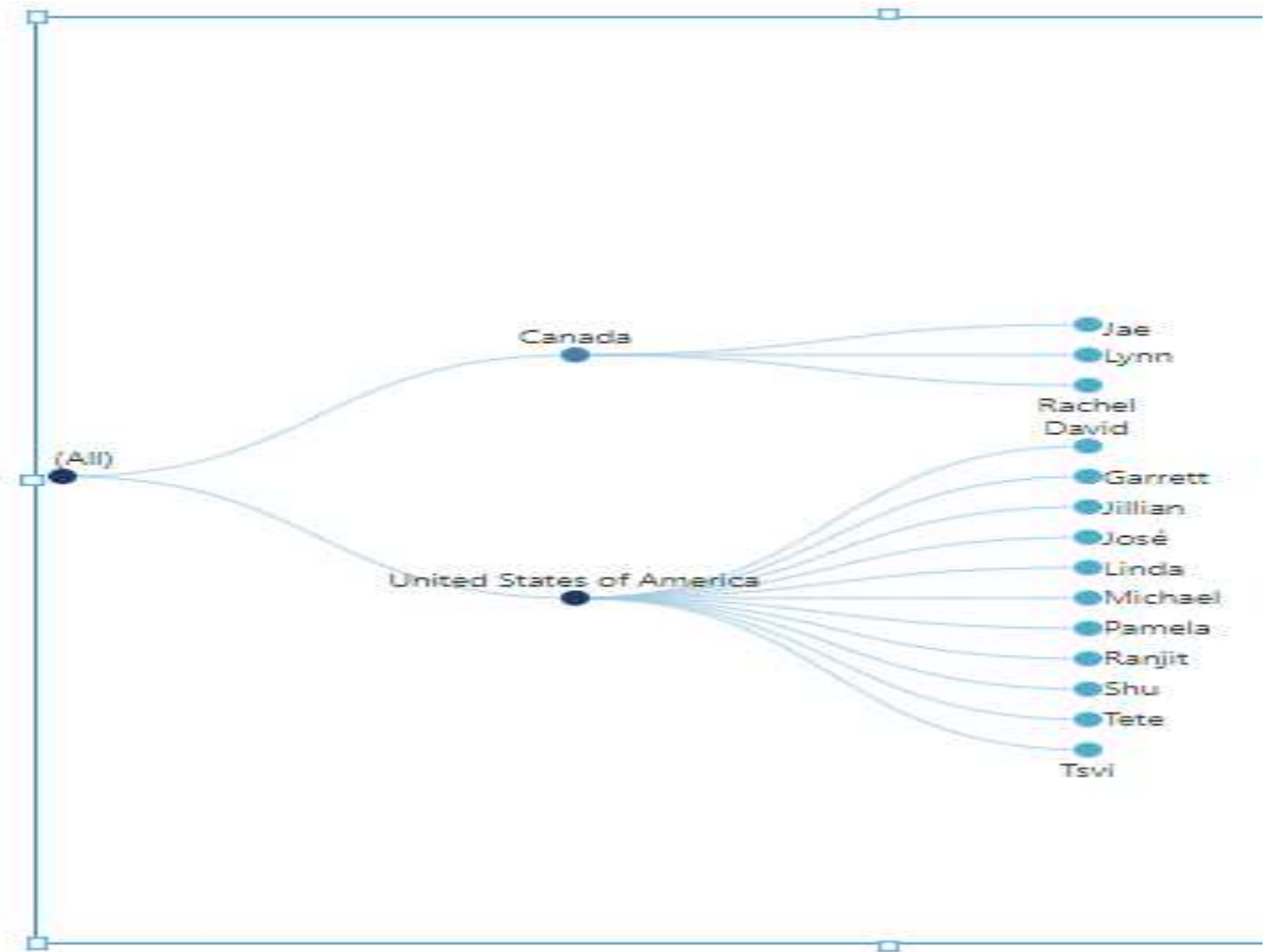
Metric Set

Metric Set 2

Nodes

- NODE
 - TerritoryID (Territory Name)
 - FirstName
- COLOR
 - SalesLastYear
- IMAGE
- SIZE
- LABEL
- TOOLTIP

Links





Data Analysis Panel - Visualization

Metric Set

Metric Set 1

Nodes

NODE

- TerritoryID (Territory Name)
- FirstName

click to add, or drop data

COLOR

- SalesLastYear

click to add, or drop data

IMAGE

click to add, or drop data

SIZE

- SalesYTD

click to add, or drop data

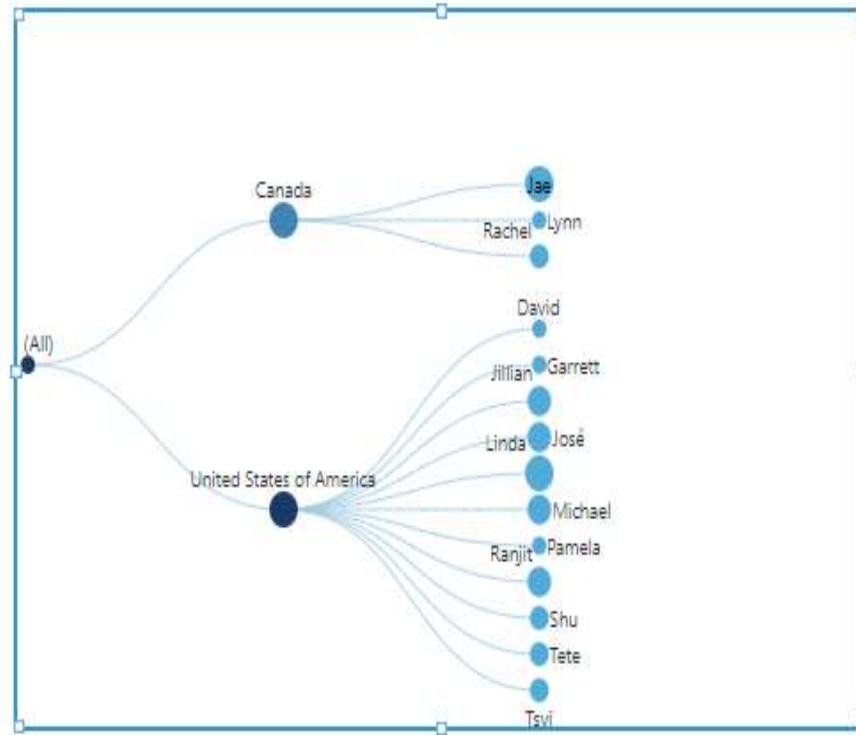
LABEL

click to add, or drop data

TOOLTIP

click to add, or drop data

Links



LAYERS

PROPERTIES

From Inclusive

To Value

To Inclusive

Number Of Classes

Distribution

Equal Distribution

Display In Legend

Legend Text

Legend Category

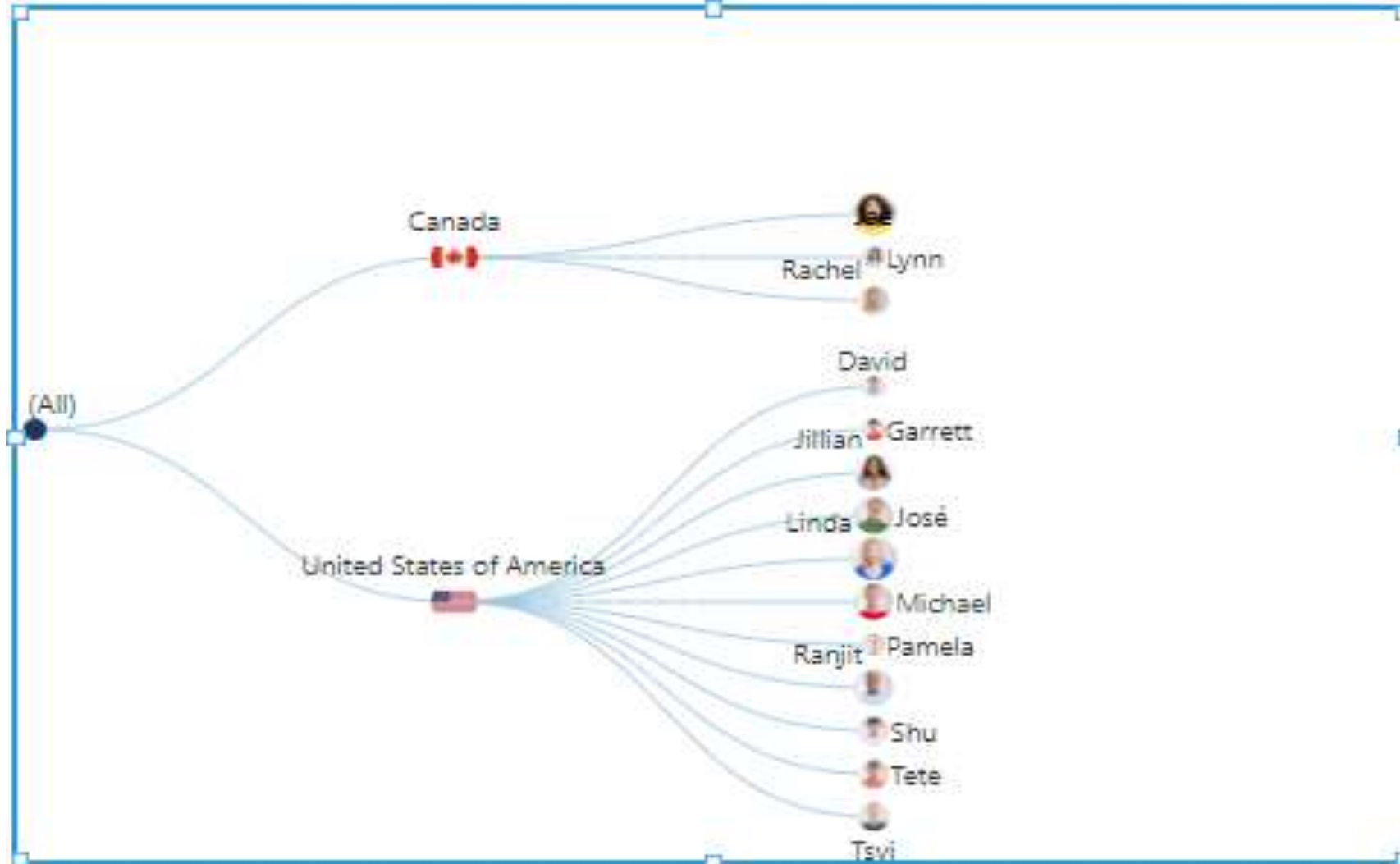
APPEARANCE

From Size (pixels)

To Size (pixels)



Display images in nodes



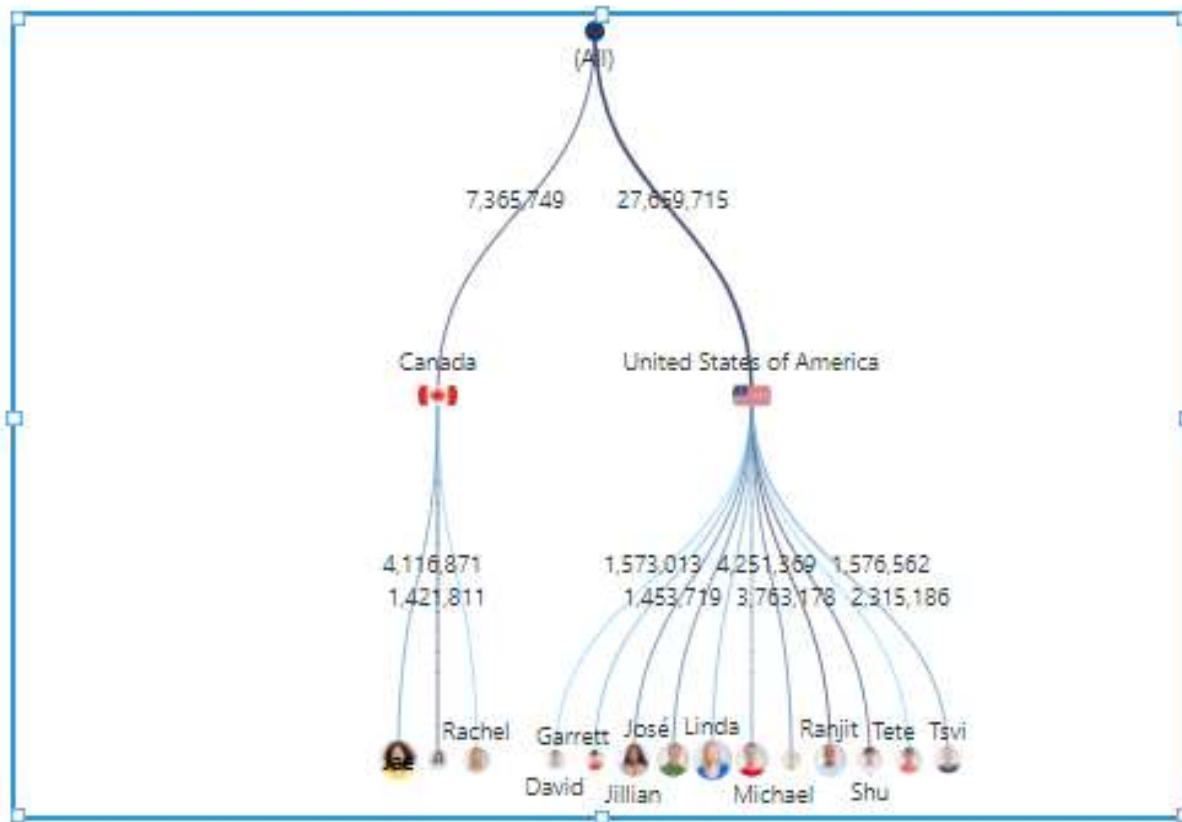


Change labels and tooltips

The screenshot shows the 'Data Analysis Panel - Visualization' window. Under 'Metric Set 1', there are sections for 'Nodes', 'Links', 'COLOR', 'WIDTH', 'LABEL', and 'TOOLTIP'. The 'LABEL' section is highlighted with a red box, showing 'SalesYTD' with a pencil icon and a checked checkbox. Below it is a 'click to add, or drop data' button. The 'TOOLTIP' section also has a 'click to add, or drop data' button.



Tree orientation



The screenshot shows a software interface with a 'PROPERTIES' panel on the right. The 'Tree Orientation' dropdown menu is highlighted with a red box and is set to 'Vertical'. Other visible settings include 'Hidden', 'Locked', 'Size' (10), 'Padding' (10), 'Width' (600), and 'Height'.



THANK YOU