

## Virtual Hierarchy in IBM PA Workspace

### Problem Statement -

When business users want to view the same data but the way they want to see it different. Like A CEO willing to see the Revenue generation country wise whereas Marketing Head based in India willing to see the same data Onshore - Offshore wise.

It is not feasible to create a separate cube and creating two separate hierarchies will make the Dimension clumsy. Functions like ELPAR also create trouble while fetching the parent when there are multiple hierarchies in one dimension.

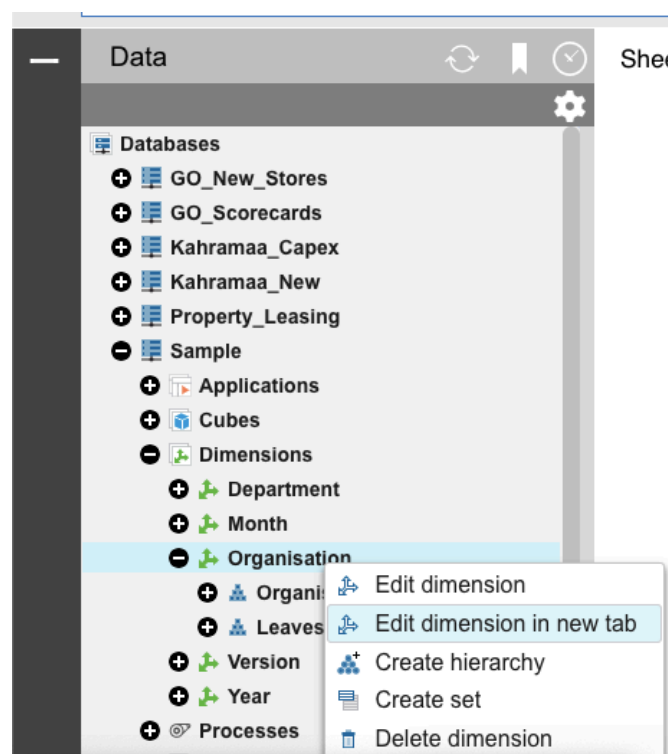
### Solution -

PAW provides the functionality to create the virtual hierarchy from attributes, where users can select the specific hierarchy for the view, they are willing to see. These virtual hierarchies will be visible in PAW.

Note - For creating Virtual Hierarchy, please ensure to provide attribute to each element else

Steps for creating Virtual Hierarchy -

1. Right Click on the dimension and select *Edit dimension in new tab*.



This will open a new page with dimension editor for further steps.

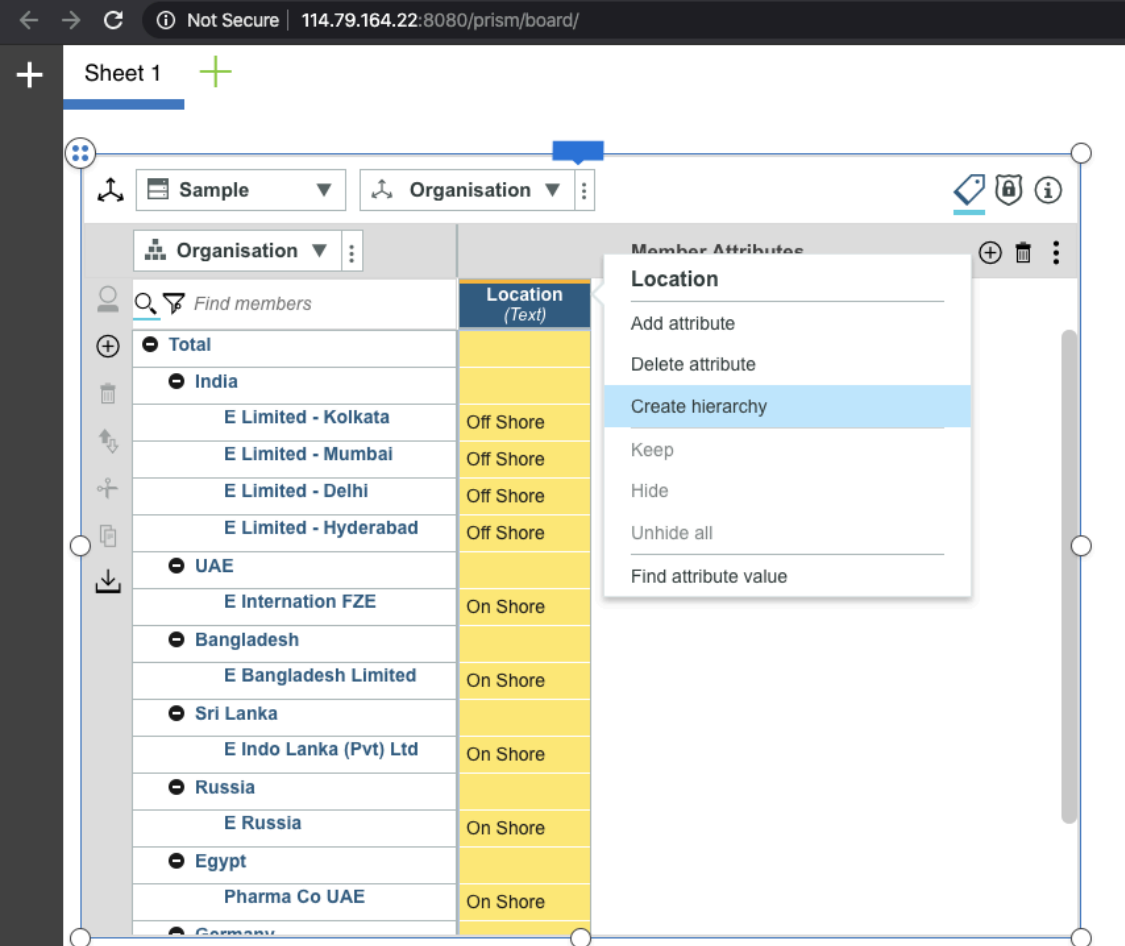
2. Click on *Switch to Member Attribute Mode* for viewing the attributes associated with the dimension. It will show all the attributes. If not then create a new attribute and ensure that attribute for all leaves are provided.

The screenshot shows a web application interface with a dark header bar containing navigation icons and the URL "114.79.164.22:8080/prism/board/". Below the header, there is a "Sheet 1" tab. The main content area displays a hierarchical list of organizations under the "Organisation" dimension. The list is structured as follows:

- Organisation (dropdown menu)
- Find members (search bar)
- Total
  - India
    - E Limited - Kolkata
    - E Limited - Mumbai
    - E Limited - Delhi
    - E Limited - Hyderabad
  - UAE
    - E Internation FZE
  - Bangladesh
    - E Bangladesh Limited
  - Sri Lanka
    - E Indo Lanka (Pvt) Ltd
  - Russia
    - E Russia
  - Egypt
    - Pharma Co UAE
  - Germany

A tooltip labeled "Switch to Member Attribute Mode" is visible in the top right corner of the main content area.

3. Right click on attribute from which hierarchy needs to be created and select *Create Hierarchy* and then click on *Ok* to confirm creation of new hierarchy



The screenshot shows a web application interface with a table of members. The table has a search bar and a 'Find members' button. The table columns are 'Organisation' and 'Location (Text)'. The 'Location' column is highlighted in blue. A context menu is open over the 'Location' column, showing options: 'Add attribute', 'Delete attribute', 'Create hierarchy', 'Keep', 'Hide', 'Unhide all', and 'Find attribute value'. The 'Create hierarchy' option is highlighted in blue.

Organisation	Location (Text)
Total	
India	
E Limited - Kolkata	Off Shore
E Limited - Mumbai	Off Shore
E Limited - Delhi	Off Shore
E Limited - Hyderabad	Off Shore
UAE	
E Internation FZE	On Shore
Bangladesh	
E Bangladesh Limited	On Shore
Sri Lanka	
E Indo Lanka (Pvt) Ltd	On Shore
Russia	
E Russia	On Shore
Egypt	
Pharma Co UAE	On Shore
Germany	

A new hierarchy is created as shown below -

The screenshot displays the Veracitiz software interface. At the top, a list of dimensions is shown, with 'Location' highlighted in blue. Below this, a table displays the hierarchy of 'Location' members. The table has two columns: 'Location (Text)' and 'Member Attributes'. The hierarchy is as follows:

- All Location
  - Off Shore
    - E Limited - Kolkata
    - E Limited - Mumbai
    - E Limited - Delhi
    - E Limited - Hyderabad
  - On Shore
    - E Internation FZE
    - E Bangladesh Limited
    - E Indo Lanka (Pvt) Ltd
    - E Russia
    - Pharma Co UAE
    - E Creme
    - E Fravi Pvt Ltd

- Now, users change the view by replacing the current hierarchy with new hierarchy. This can be done by right clicking on the dimension and selecting *Replace this hierarchy...*

Sheet 1

Version Actual | Year FY\_202021 | Month Y1

Organisation Total | Department

	Management	Finance	Human Res...	Information...	Marketing
Total	150.00	0.00	0.00	50.00	0.00
India	100.00	0.00	0.00	0.00	0.00
UAE	0.00	0.00	0.00	0.00	0.00
Bangladesh	50.00	0.00	0.00	0.00	0.00
Sri Lanka	0.00	0.00	0.00	50.00	0.00
Russia	0.00	0.00	0.00	0.00	0.00
Egypt	0.00	0.00	0.00	0.00	0.00
Germany	0.00	0.00	0.00	0.00	0.00
Australia	0.00	0.00	0.00	0.00	0.00

Version Actual | Year FY\_202021 | Month Y1

Organisation Total | Department

	Management	Finance	Human Res...	Information...	Marketing	Sales	A
Total	150.00	0.00	0.00	50.00	0.00	0.00	
India	100.00	0.00	0.00	0.00	0.00	0.00	
UAE	0.00	0.00	0.00	0.00	0.00	0.00	
Bangladesh	50.00	0.00	0.00	0.00	0.00	0.00	
Sri Lanka	0.00	0.00	0.00	50.00	0.00	0.00	
Russia	0.00	0.00	0.00	0.00	0.00	0.00	
Egypt	0.00	0.00	0.00	0.00	0.00	0.00	
Germany	0.00	0.00	0.00	0.00	0.00	0.00	
Australia	0.00	0.00	0.00	0.00	0.00	0.00	

Remove this hierarchy  
Hide from view  
Add related hierarchy...  
Replace this hierarchy...

	Management	Finance	Human Res...	Information...	Marketin
<b>All Location</b>	150.00	0.00	0.00	50.00	0
<b>Off Shore</b>	100.00	0.00	0.00	0.00	0
<b>On Shore</b>	50.00	0.00	0.00	50.00	0

Happy Learning!!!