

How to solve Pie chart legend label placement by using business charts plugin

Introduction:

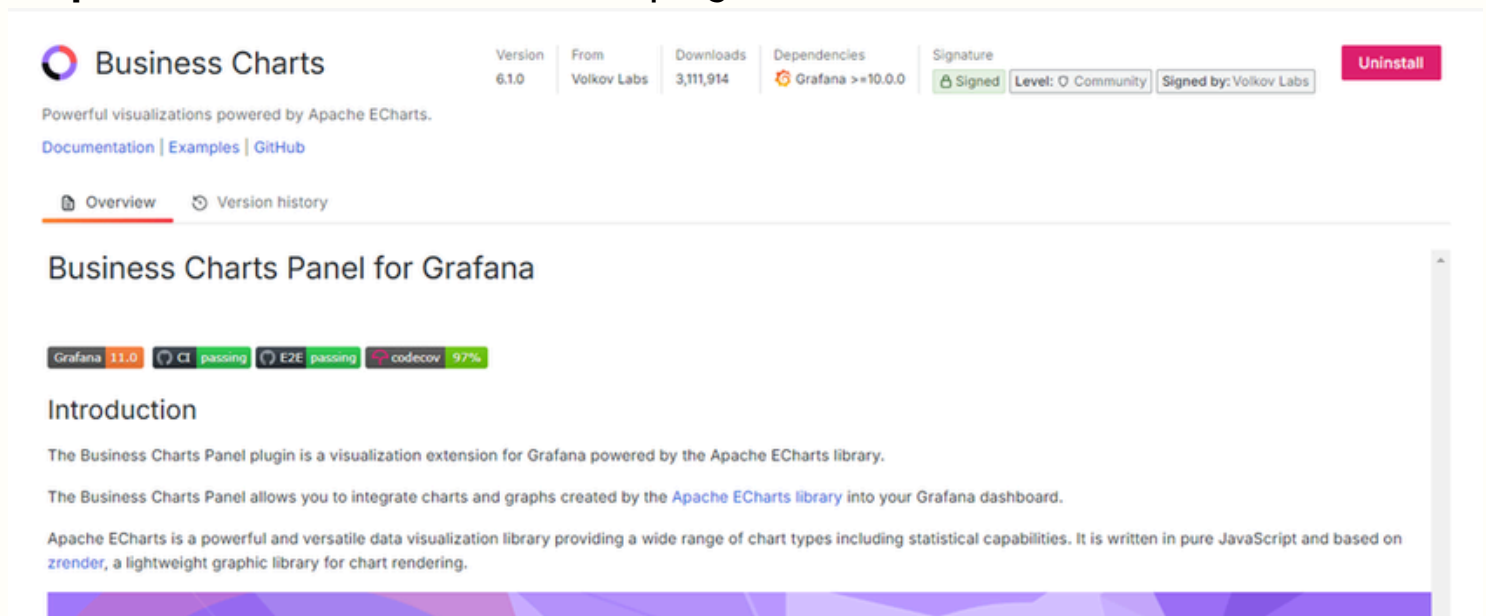
Pie charts are a popular and effective way to visualize data, offering a clear and concise representation of the proportional distribution of categories within a dataset. The Business Charts Plugin provides a robust and user-friendly toolset for creating visually appealing and informative pie charts, making it easier for businesses to interpret and communicate their data insights.

You can follow these steps to customize all labels as you want

Step 1. Create table with your desired fields and insert your desired data:

```
5 CREATE TABLE pie_data (  
6     name text NOT NULL,  
7     value FLOAT NOT NULL  
8 );  
9 |  
10
```

Step 2. Install the business charts plugin



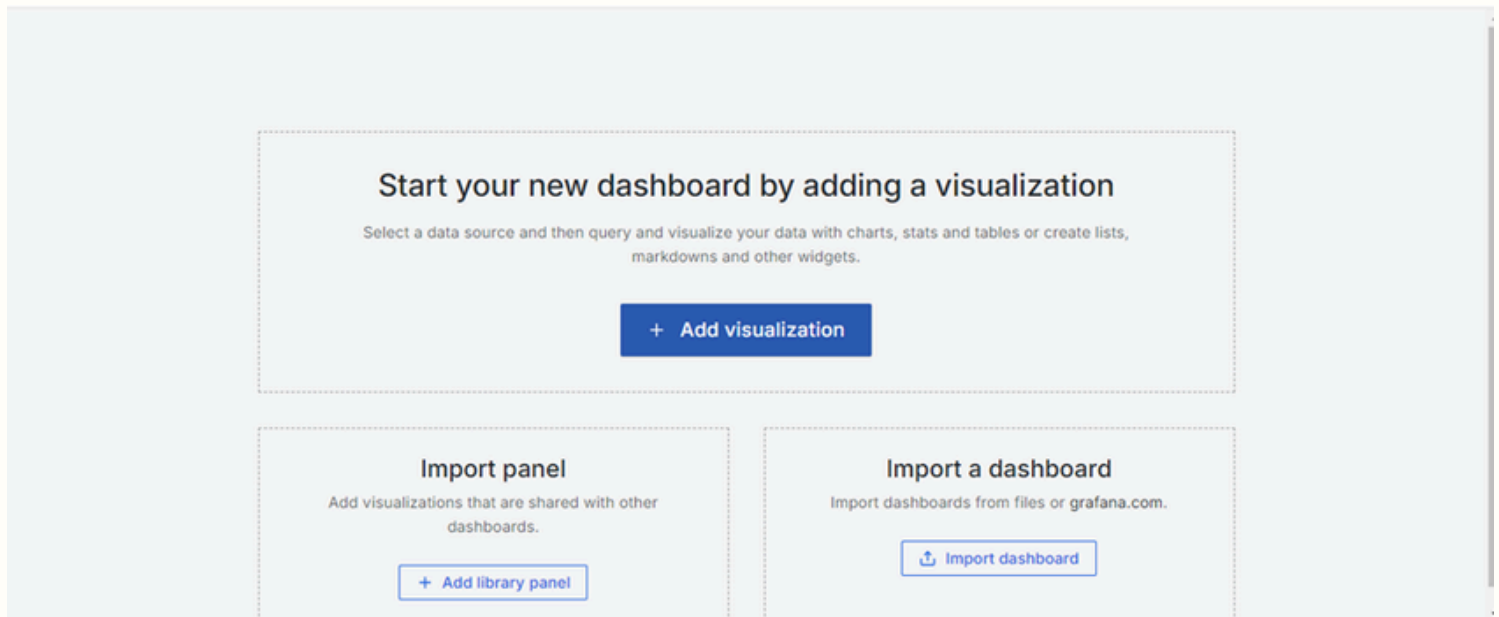
The screenshot shows the Grafana plugin page for 'Business Charts'. At the top, it displays the plugin name 'Business Charts' with a version of 6.1.0, from Volkov Labs, with 3,111,914 downloads. It lists dependencies as 'Grafana >=10.0.0' and shows a 'Signed' status. There are links for 'Documentation', 'Examples', and 'GitHub'. Below this, there are tabs for 'Overview' and 'Version history'. The main heading is 'Business Charts Panel for Grafana'. Underneath, there are badges for 'Grafana 11.0', 'CI passing', 'E2E passing', and 'codecov 97%'. The 'Introduction' section states: 'The Business Charts Panel plugin is a visualization extension for Grafana powered by the Apache ECharts library. The Business Charts Panel allows you to integrate charts and graphs created by the Apache ECharts library into your Grafana dashboard. Apache ECharts is a powerful and versatile data visualization library providing a wide range of chart types including statistical capabilities. It is written in pure JavaScript and based on zrender, a lightweight graphic library for chart rendering.'



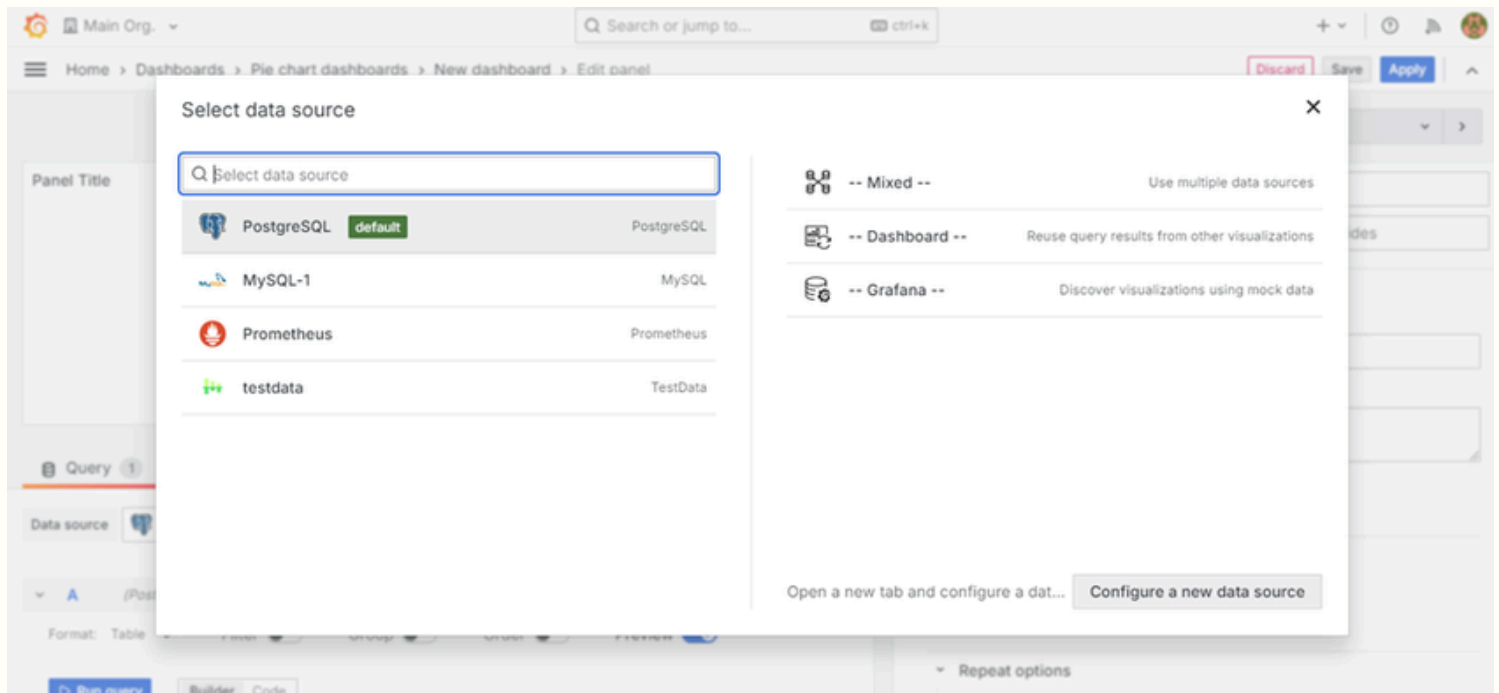
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Step 3. Create new grafana dashboard and add visualization



Step 4. Click on add visualization and select your desired datasource





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Step 5. Search for business charts panel type and click on it

Step 6. Write select query for selecting your desired data

Step 7. Now go to the function section and paste this JSON code to this section



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```
return {
  dataset: {
    source: context.editor.dataset.source,
  },
  series: [
    {
      name: "",
      type: 'pie',
      bottom: '50',
      radius: '70%',
      emphasis: {
        itemStyle: {
          shadowBlur: 10,
          shadowOffsetX: 0,
          shadowColor: 'rgba(0, 0, 0, 0.5)'
        },
      },
      label: {
        formatter: function (params) {
          var label = [];
          const FIRST_ROW_INDEX = 0; // Define a constant for the first row index

          // Add dynamic fields from the dataset
          var additionalFields = context.editor.dataset.source[FIRST_ROW_INDEX]; // Get column names
          from the first row
          var firsttable = additionalFields[0]
          // Add the first value
          label.push('{a|' + firsttable.substring(2) + '}' + ' : ' + params.value[0].slice(0, -8));

          // Add subsequent values
          for (var i = 1; i < params.value.length; i++) {
            var fieldName = additionalFields[i];
            label.push('{a|' + fieldName.substring(2) + '}' + ' : ' + (params.value[i] || '-'));
          }

          return label.join('\n');
        },
      },
    },
  ],
}
```



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```
backgroundColor: '#fff',
borderColor: '#8C8D8E',
borderWidth: 1,
borderRadius: 4,
rich: {
  a: {
    color: '#000',
    lineHeight: 22,
    align: 'left',
    fontWeight: 'bold'
  },
  hr: {
    borderColor: '#000',
    width: '100%',
    borderWidth: 1,
    height: '100px'
  },
  b: {
    color: '#000',
    width: '100%',
    padding: [6, 4] // Example padding
  },
  per: {
    color: '#000',
    padding: [5, 3],
    fontWeight: 'bold' // Example padding
  },
  c: {
    color: '#000',
    padding: [5, 3],
  }
},
tooltip: {
  trigger: 'item',
  formatter: '{a} <br/>{b}: {c} ({d}%)' // Tooltip format including percentage
},
```



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```
legend: {
  orient: 'vertical',
  left: 'right',
  top: 'center',
  align: 'left',
  textStyle: {
    color: '#000'
  },
  formatter: function (params) {
    var padding = ''; // Adjust the padding as needed
    var data = series[0].data;
    for (var i = 0; i < data.length; i++) {
      if (data[i].params === params) {
        return padding + params + ' (' + data[1].percent.toFixed(2) + '%)';
      }
    }
    return padding + params;
  }
}
];
```

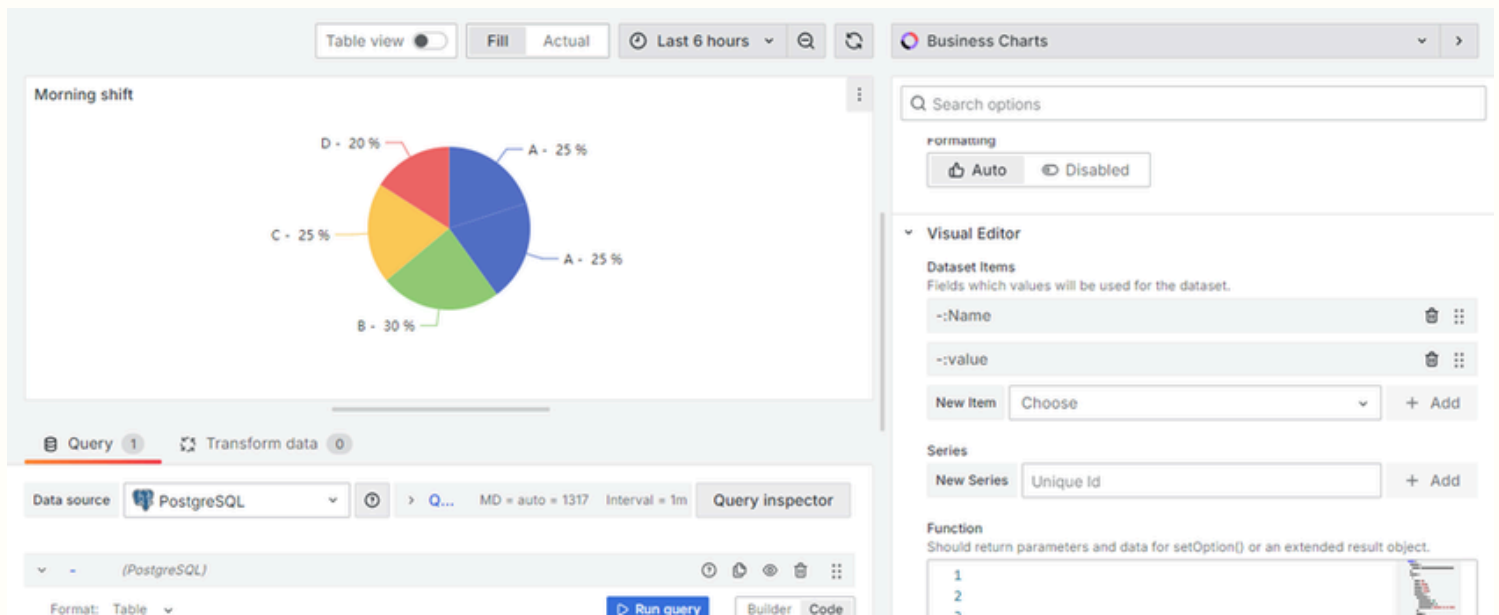
Function

Should return parameters and data for setOption() or an extended result object.

```
1  return {
2    dataset: {
3      source: context.editor.dataset.source,
4    },
5    series: [
6      {
7        name: '',
8        type: 'pie',
9        bottom: '50%',
10       radius: '70%',
11       emphasis: {
12         itemStyle: {
13           shadowBlur: 10,
14           shadowOffsetX: 0,
```

Step 8. Now go to the Visual editor section and add your fields but make sure following points while adding these fields:

- The first field will be the label value field
- The second field will be the pie chart slice value
- The values after second field will started listing below the tooltip values



Step 9. Click on save and then apply

Final outcome

