How to define Graph in HDPOS Smart?

HDPOS Smart provides several chart/graph options to let you analyze your business in a visual format (2D and 3D).

A chart/graph can display a summary of sales, profit, or current inventory by category, or by business location. The information can be viewed in bar, line, or pie chart etc.

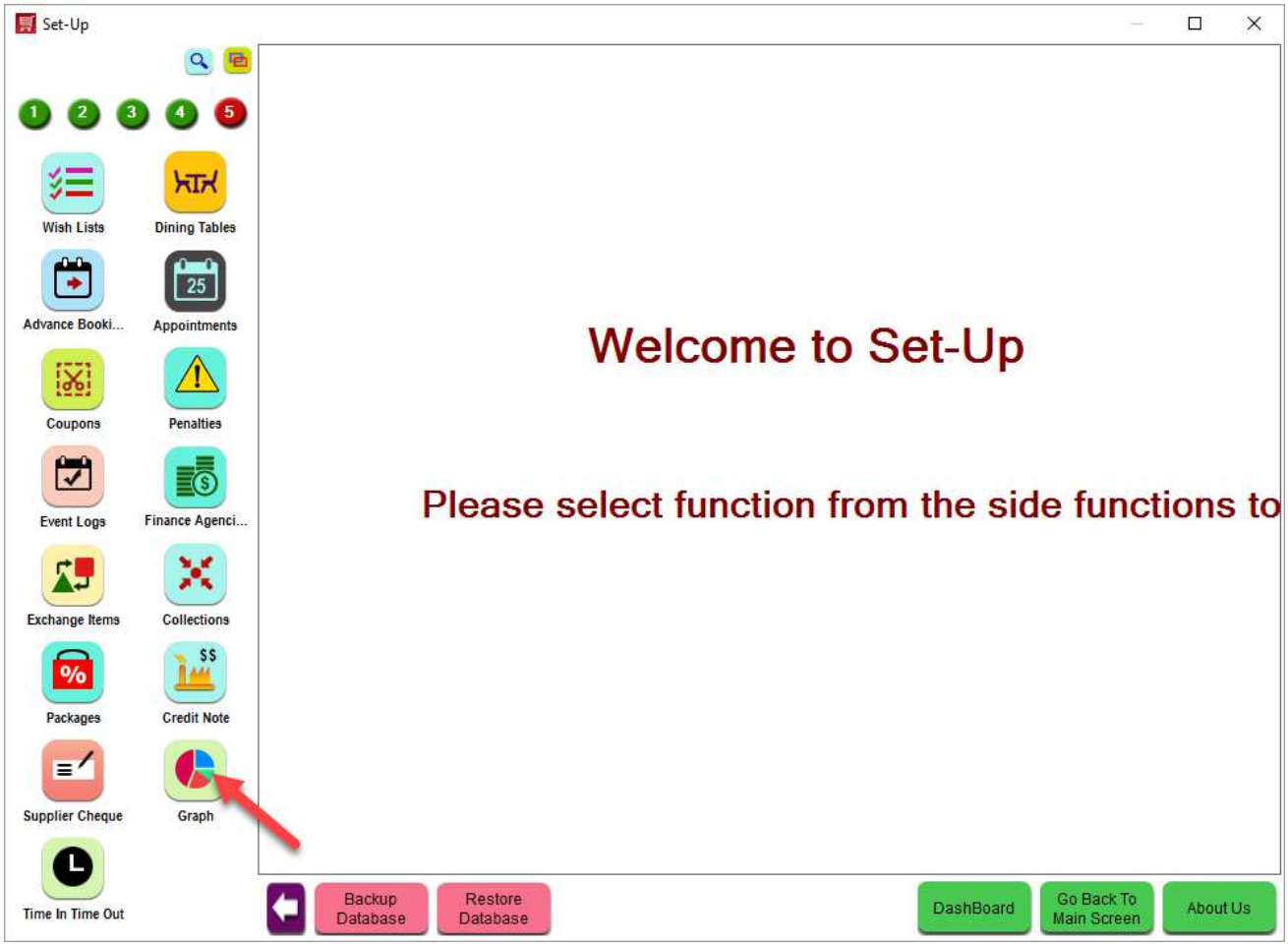
Graphs can be customized in many different ways. Each portion of the graph can be altered to fit your needs. You can print and generate PNG, JPEG and PDF file of current graph.

Note : This feature is available only in HD Products **V2**.

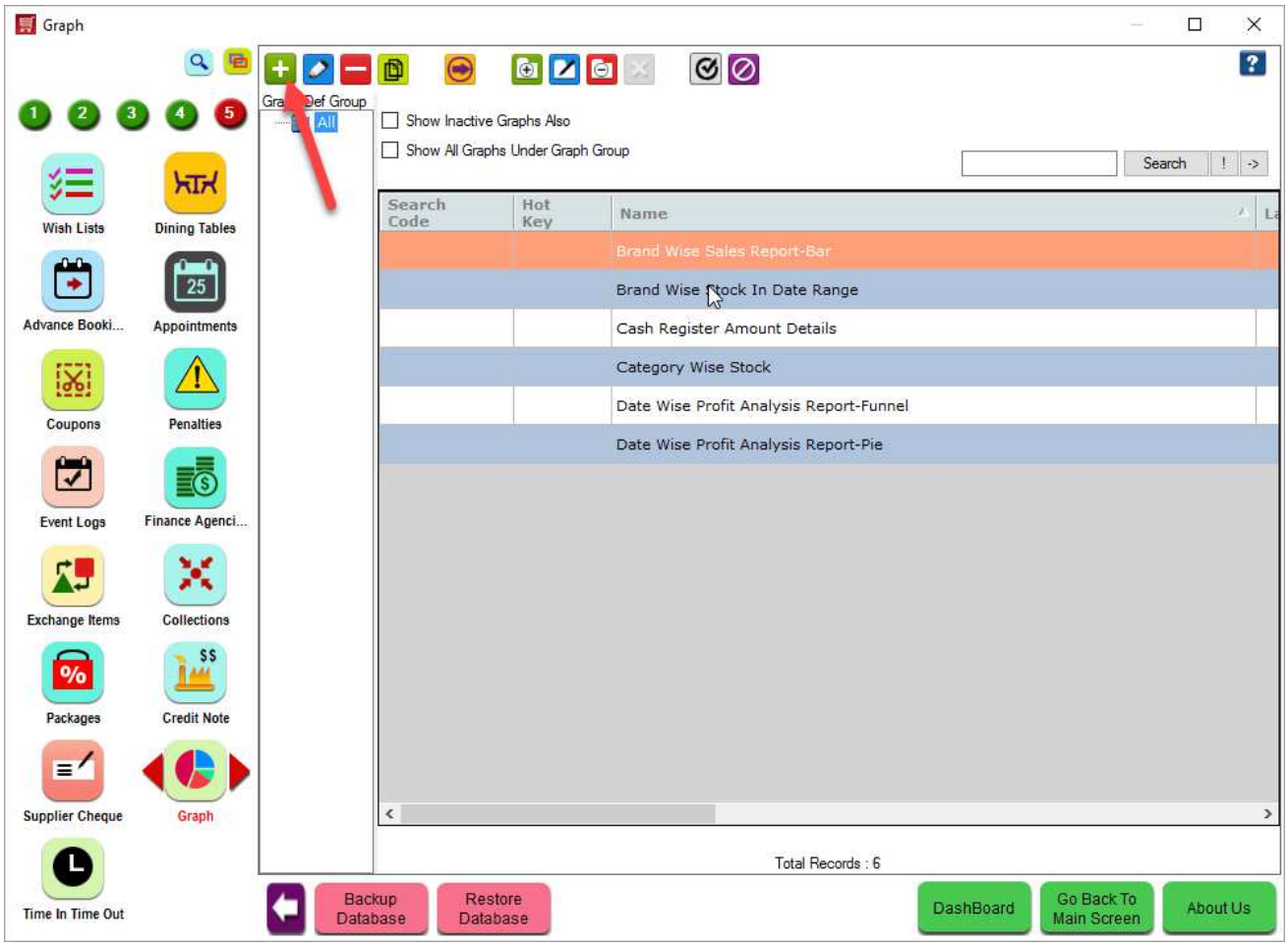
Add graph definition

Follow the steps to add new graph definition in HDPOS Smart :

1. From **Set-up**, select **Graph**.



2. Click on **New Graph**.

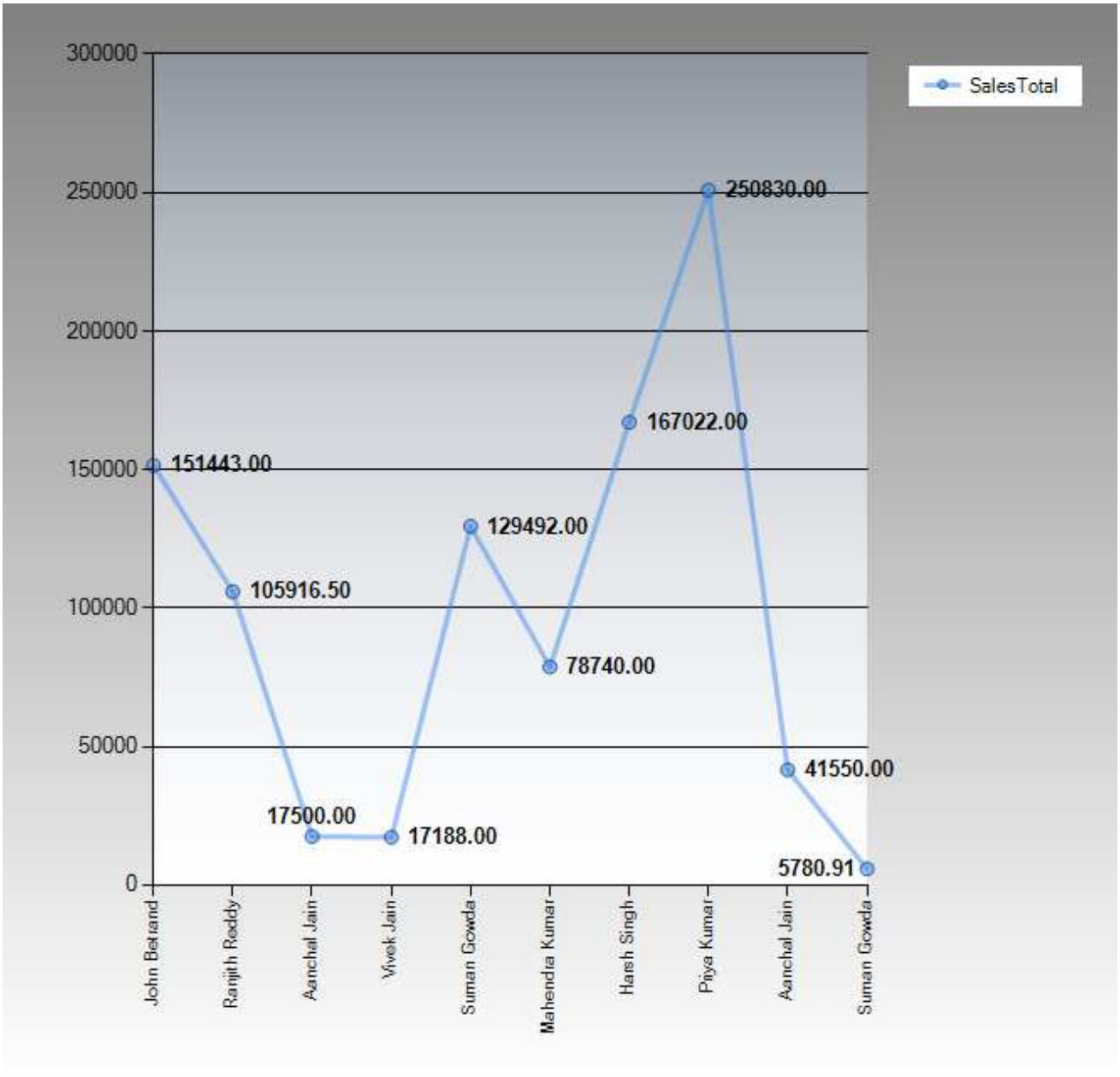


3. **Graph Name**: Enter Graph name and other details such as description, search code etc. as required.

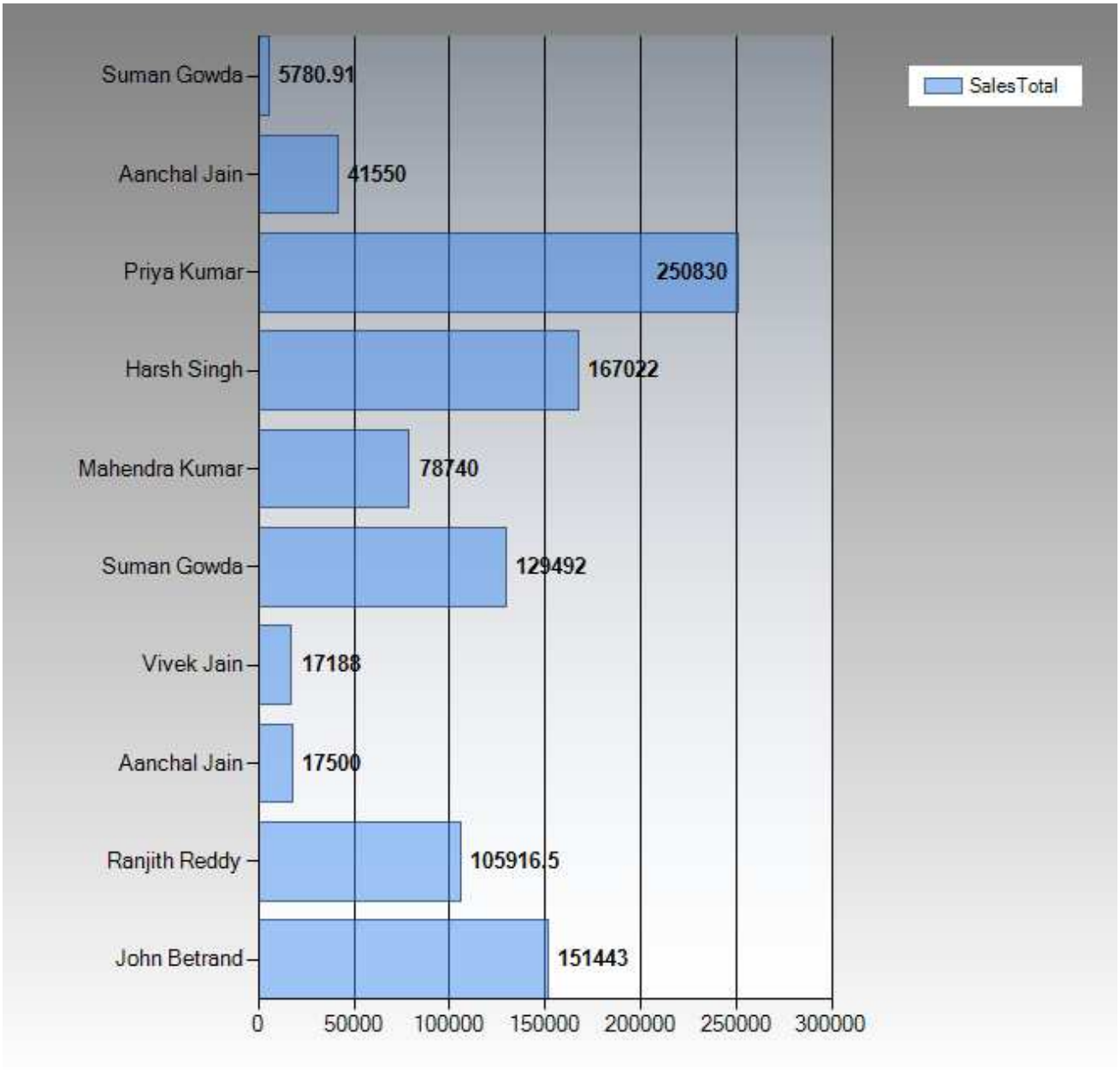
4. **Report**: Select the report to view the data in graphical mode.

5. **Select Chart**: Select the chart type to view the data. You can select any of the following charts listed below -

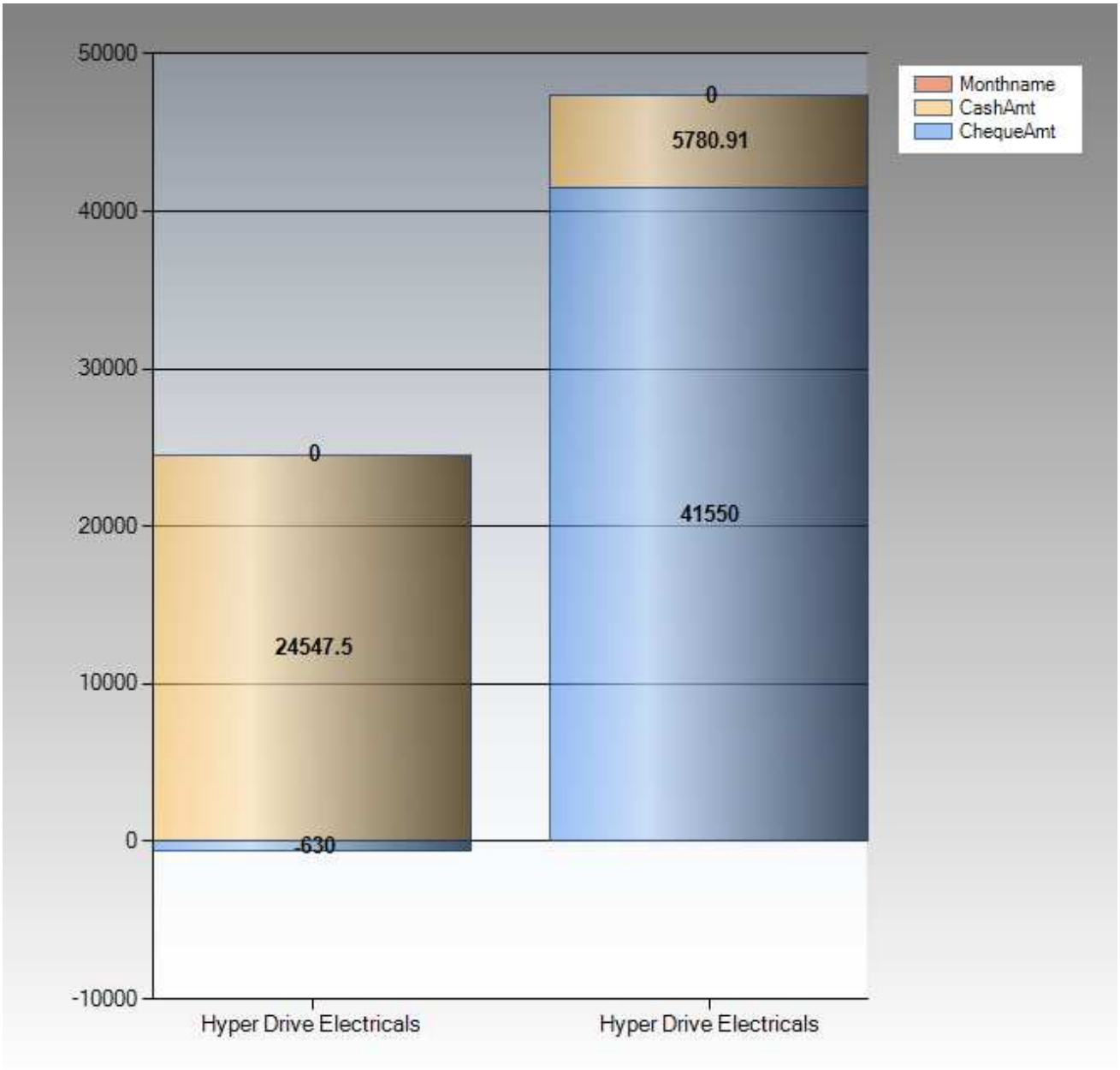
- **Line Chart**: Line chart connects the data points with straight line. Lines chart shown below displays sales total by customers.



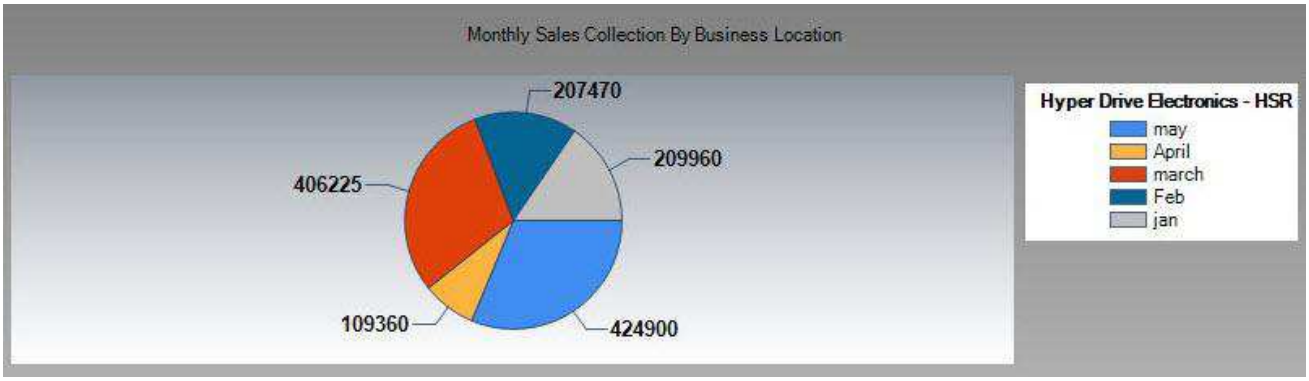
- **Bar Chart**: Bar charts display data using rectangular bars where the length of the bar is proportional to the data value. A bar chart is oriented horizontally. Bar Chart shown below displays sales total by customers.



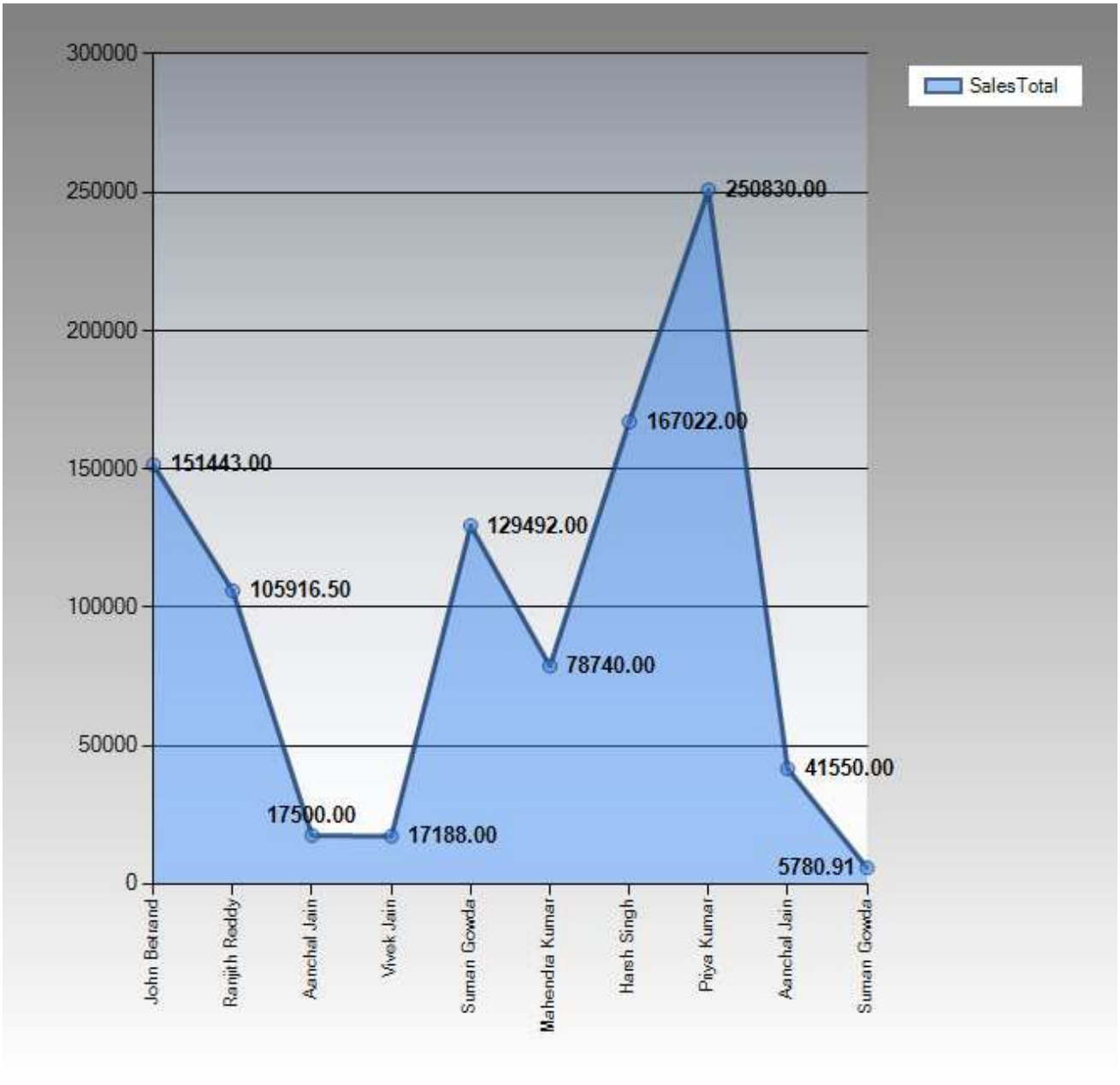
- **Stacked Column**: A stacked column chart will combine multiple data sets with a common Y-axis dimension. Stacked column chart shown below displays month wise sales collection by business location.



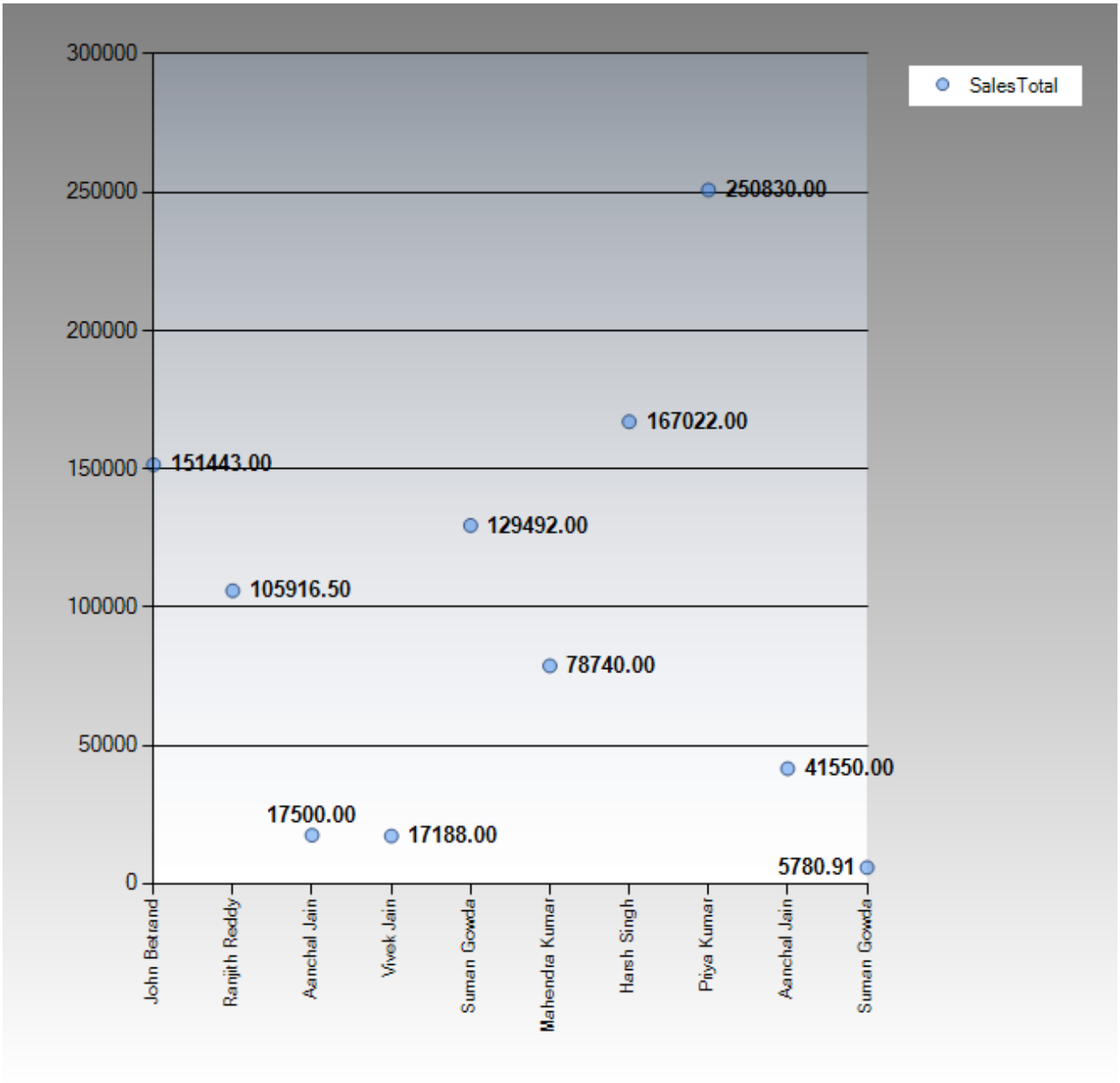
- **Pie Chart**: Pie Charts displays data in pie shape. Pie charts are useful when you are trying to compare parts of a whole. Pie chart shown below displays monthly sales for selected business location.



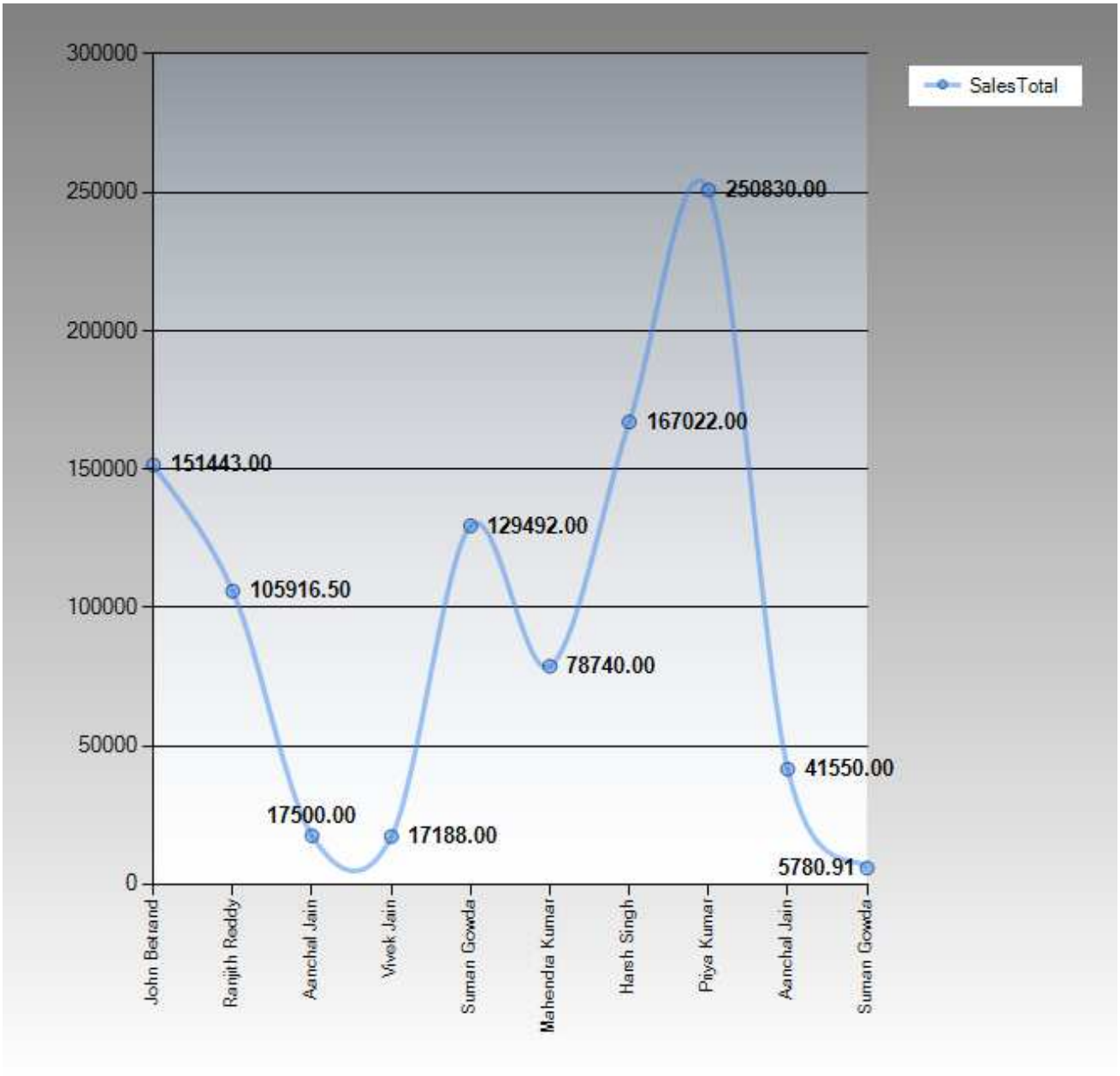
- **Area Chart**: Same as line chart but with the area between the lines filled in.



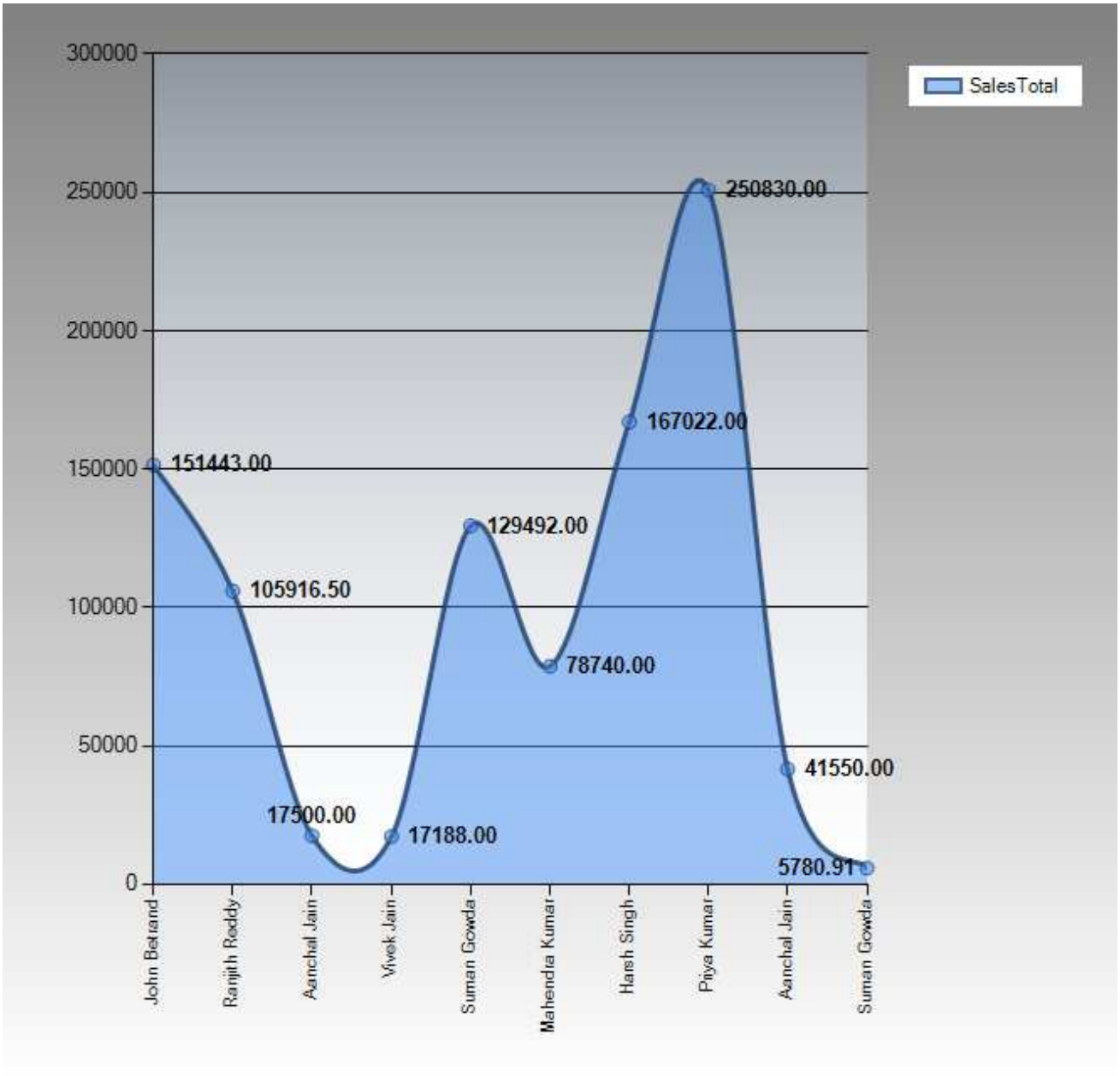
- **Point Chart**: This type of chart series values are represented like points on the chart.



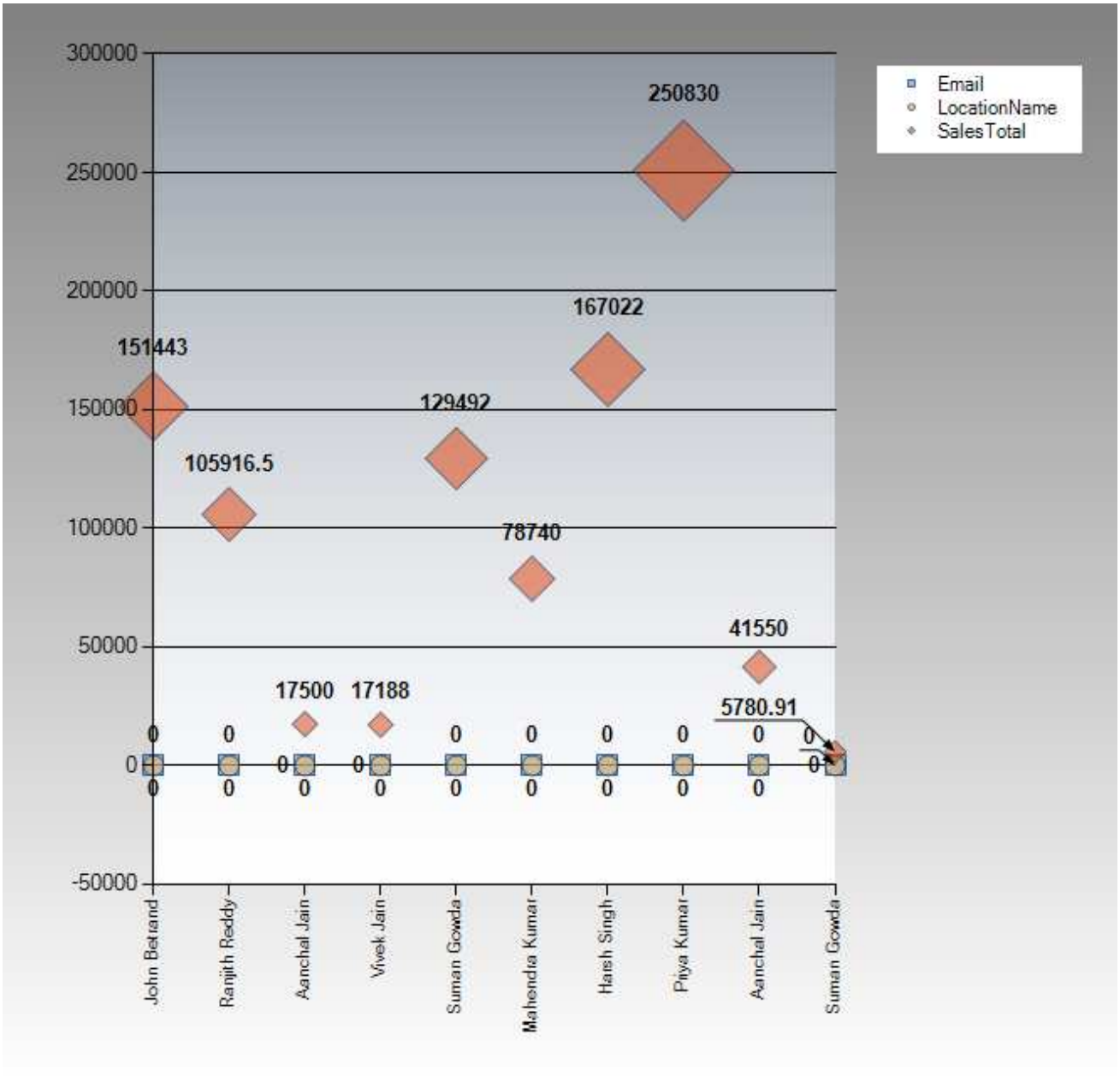
- **Spline Chart**: Unlike line charts that connect data points with straight lines, a spline chart draws a fitted curve through the data points.



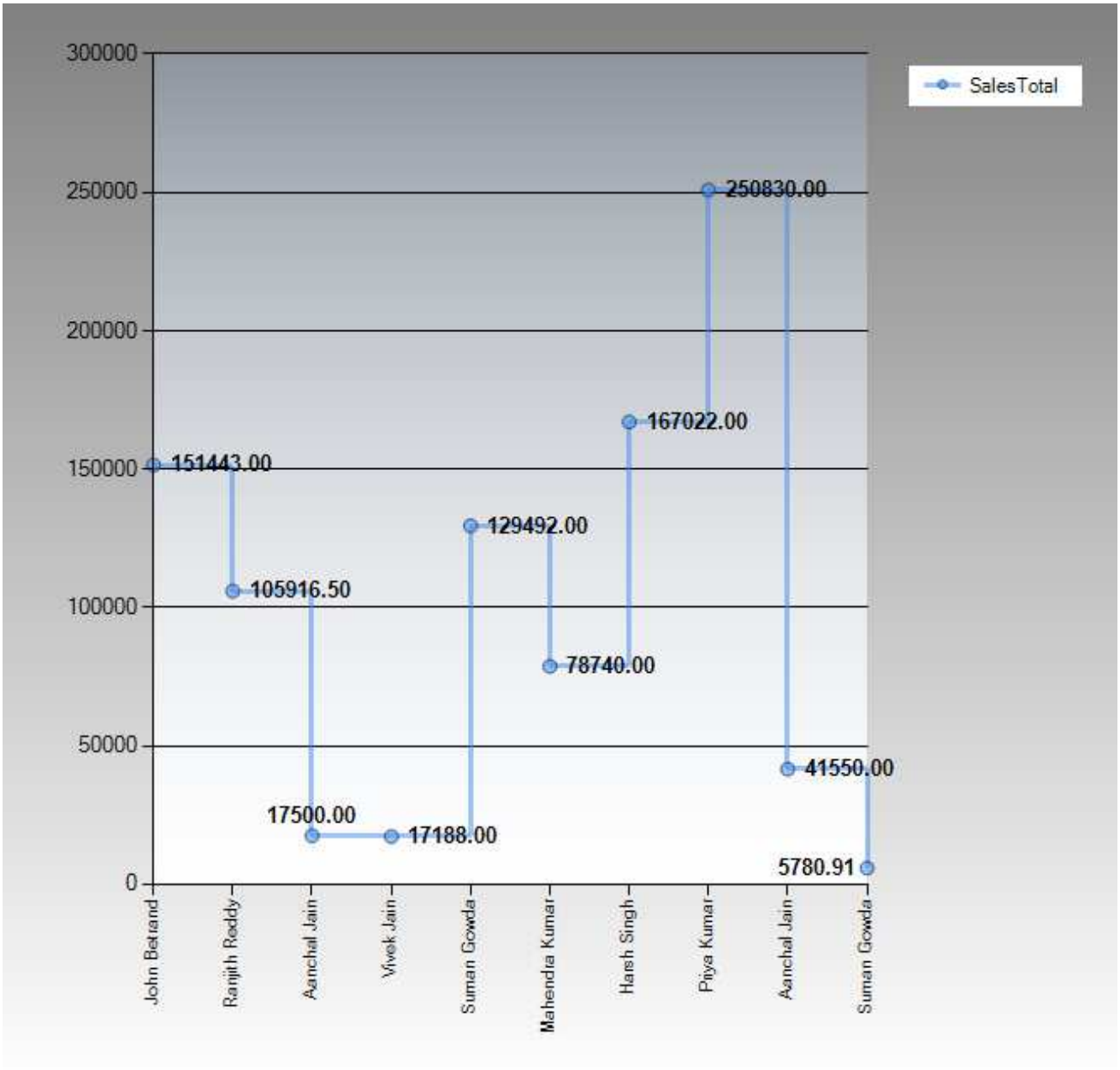
- **Spline Area Chart**: Same as spline chart but with the area between the lines filled in.



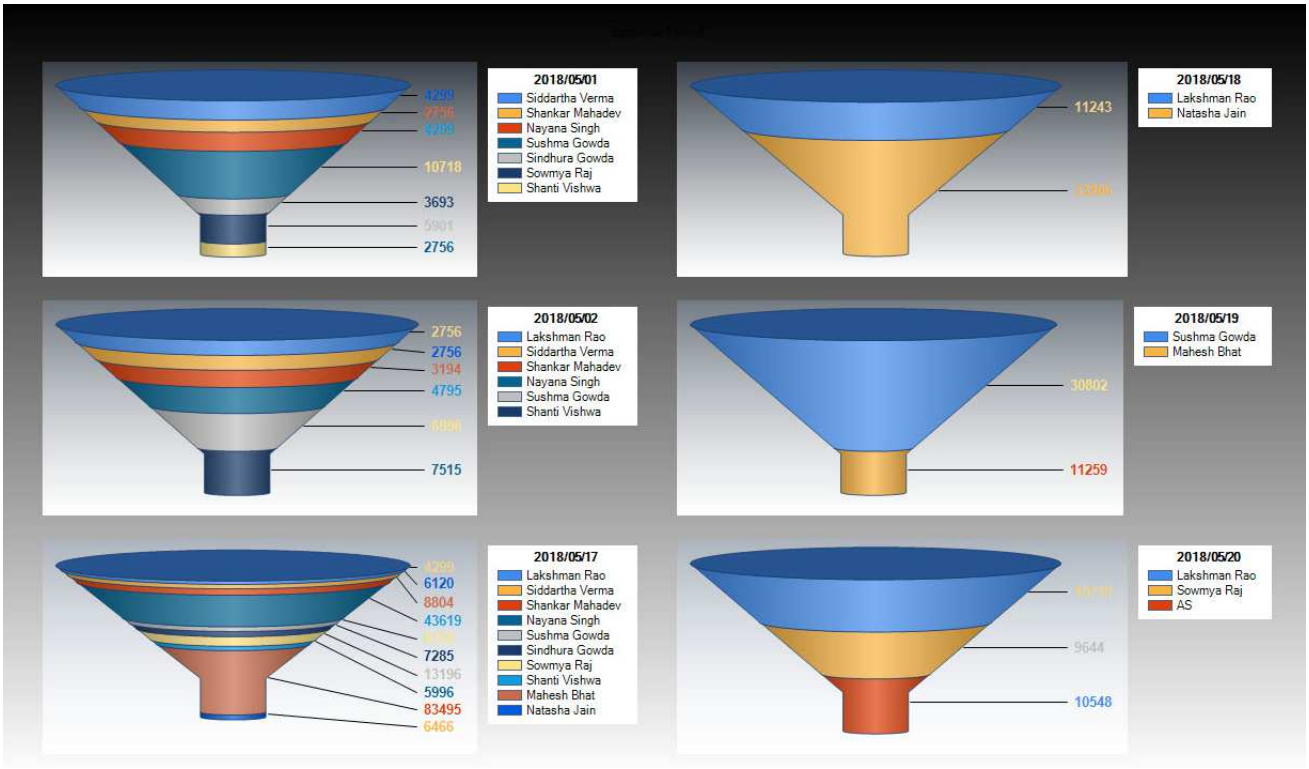
- **Bubble Chart**: In bubble chart data points are represented with different bubble shapes.



Step Line Chart: This chart type uses vertical and horizontal lines to connect the data points in a series forming a step-like progression.



- **Funnel Chart**: Funnel chart shows a series of steps and the completion rate for each step.



6. Based on the report that you selected, all report columns will be populated in X-Axis and Y-Axis fields.

7. **Select X-Axis**: Select which variable (report column) to plot on the horizontal (X) axis. The x axis, usually horizontal, shows the value of a selected variable.

8. **Select Y-Axis**: Select which variable (report column) to plot on the vertical (Y) axis. Y axis, usually vertical, plots the values of the selected variable(s).

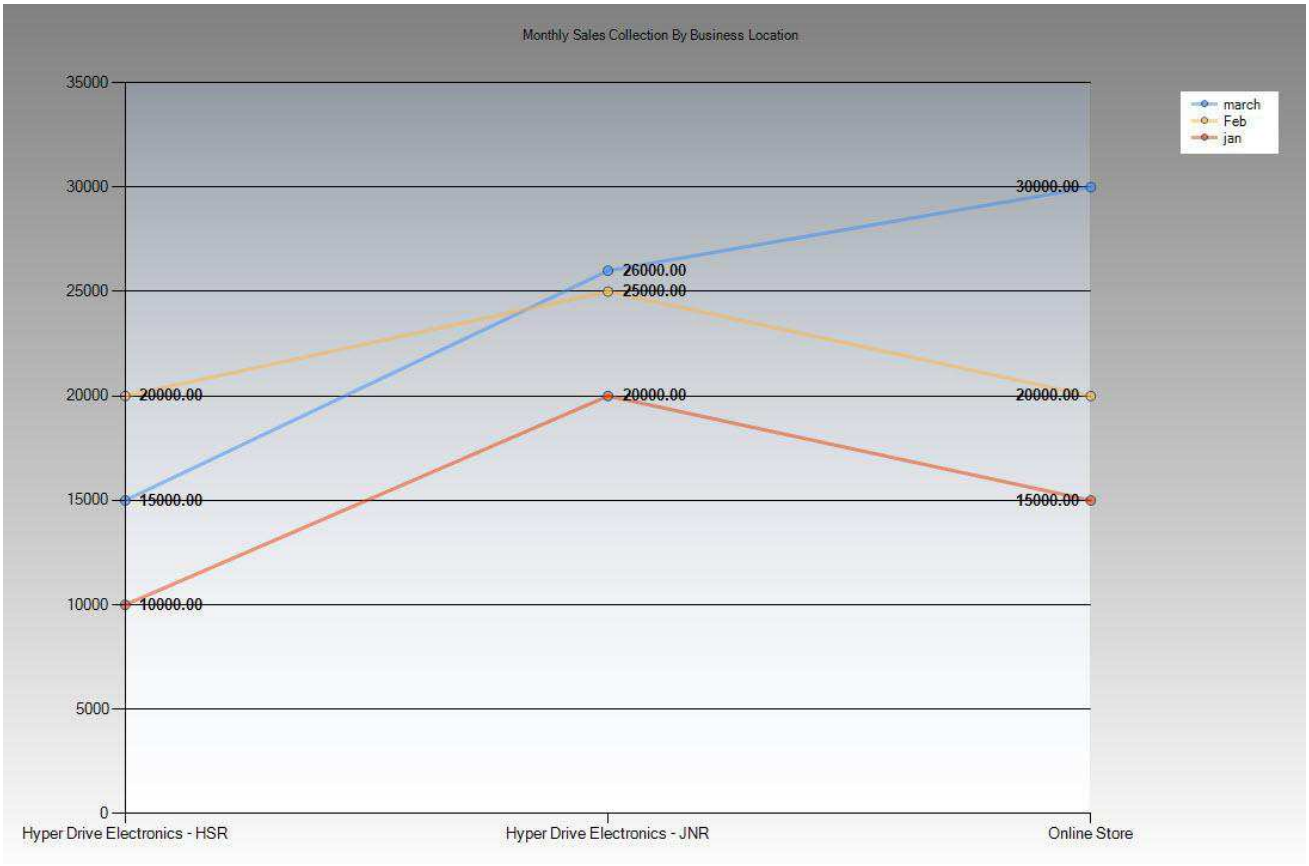
- From left section Y-Axis, select the field and click on right arrow button to display on Y-Axis. To remove a field from Y –Axis, select the field from right section of Y-Axis and click on left arrow button.

Note: You can select more than one variable on vertical Y-Axis.

9. Let's consider a report which gives total sales by month and by business location as shown below -

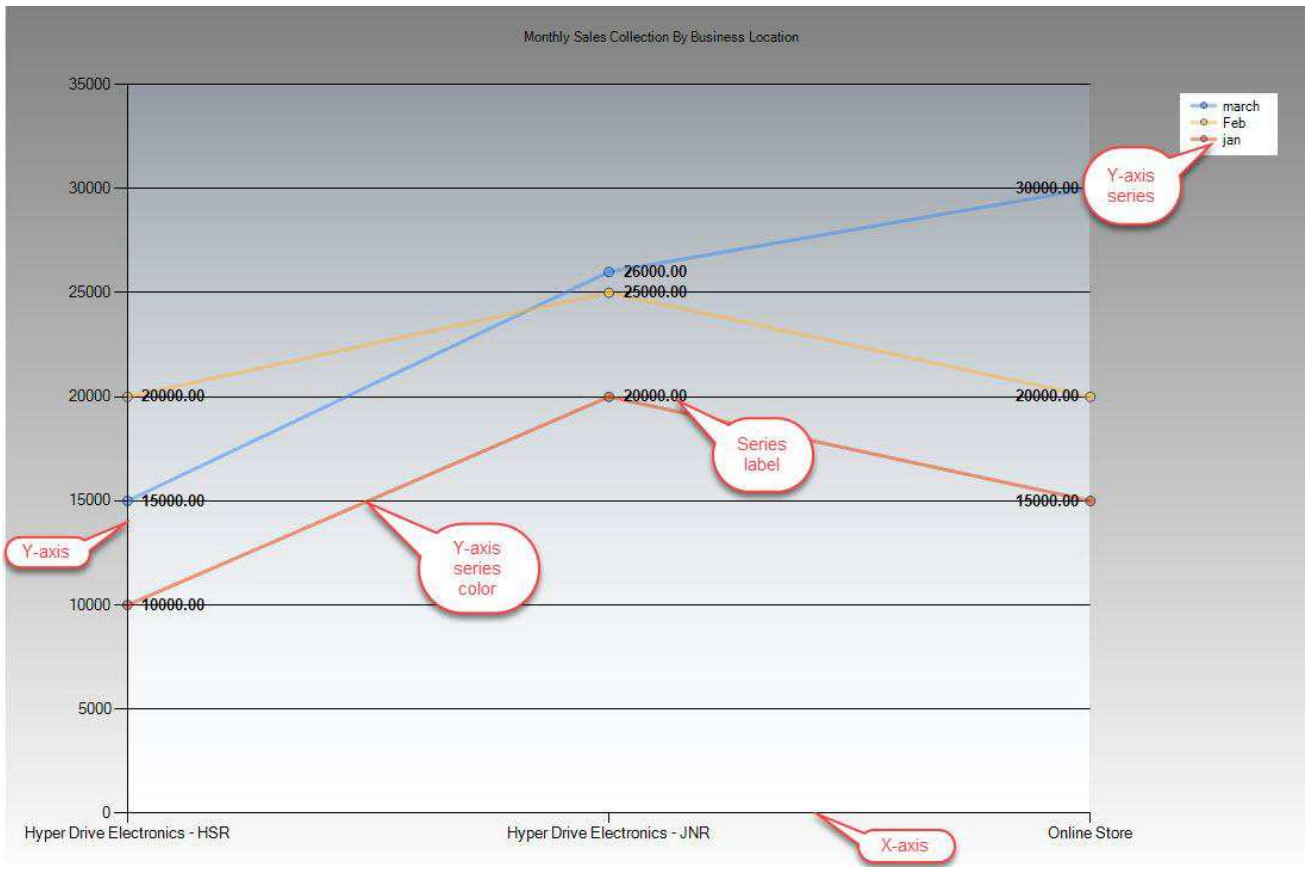
Location Name	Jan	Feb	March
Location 01	10000	20000	15000
Location 02	20000	25000	26000
Location 03	15000	20000	30000

Here in this example, Location Name and Month will be the report columns (variables). To display the same data in graphical view, select X-Axis as business location and Y-axis as Jan Feb and March. Based on above graph definition and chart type as line chart, you'll see graph data as shown below.



Define graph view settings

Graph view settings, lets you to customize the graph appearance. Below chart illustrates how report data is plotted in line chart.



In the above chart X-axis displays business location and Y-axis displays numerical values (in this example total sale).

Each Y-axis series will be assigned a default color, in the above line chart Y- axis series Jan series is assigned Red color, feb series is assigned Yellow color and March series is assigned Blue color. You can customize the graph appearance using below options :

UI Elements	Description
Display in 3D chart	Allows you to change the chart display style. Check to use three-dimensional style to view graphs
Chart	Lets you change the chart type of the selected series.
Transparency	Allows you to adjust chart series label transparency.
Chart Color	Allows you to customize the chart display color
Back Color	Allows you to customize the chart background color
Rotate X : Rotate Y	Allows you to rotate the three dimensional graph along x and y axes.
Series Color	Allows you to change series color to display in chart.
Series Label Color	Allows you to change series label color to display in chart
Show Series Label	Uncheck to hide a selected series label from the chart
Hide Series	Check to hide selected series from the chart
Print Graph	Print graph image
Save Graph	Save graph image as PDF file
Send Email	Click to send graph image as email attachment
Copy to Clipboard	Select Copy to Clipboard from the tool strip, to copy the graph image to other files such DOCX, MS Paint, Excel etc.

10. From **Graph Definition** window click on **Save** to save graph settings.