



X-Docx

DASHBOARD

DASHBOARD CONFIGURATION

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Exercise 1: Dashboards: Pie Series, Column Series and Line Series

Introduction:

In this exercise we will study about Dashboards. Dashboards is like Chart. For Creating Dashboard we have to make entry on followings three tables. General format for Dashboard URL is:

Dashboard.aspx?name=[Name of Dashboard]

Database:

Configuration Database

Database Objects:

Tables:

1. tbl_int_DashBoard
2. tbl_int_DashBoardDetail
3. tbl_int_DashBoardControl_Detail

Procedure:

1. Create Dashboard (tbl_int_Dashboard):

- a. For Creating Dashboard we have to do entry in followings Tables:

Column	Description
ID	Unique Identity
Name	Name Of Dashboard (Normally Same as function Name)
ParentId	It should be ID of function
Description	This field is used to display name of Dashboard at User side. (Normally it is same as Name)
ImageId	ID of image that should be displayed as icon when Dashboard initially loaded
SelectedImageID	ID of image that should be displayed as icon when Dashboard is selected
ExpandedImageID	ID of image that should be displayed as icon when Dashboard is expanded
TableName	Name of the table where you want to Table data Display in Dashboard
PKColumnName	Name of Column which have Primary key constraint



IsPKIdentity	Normally it is NULL.
ApprovalColumn	NULL (Used when we want to make approval functionality)
ReadOnlyLogic	Write Query which return 0 or 1. Otherwise it should be NULL
SrNo	Sequence Number of Dashboard for determining the sequence when there are more than one Dashboards
AfterSaveURL	Normally it should be NULL
AfterEditURL	Normally it should be NULL
AfterContinueURL	Normally it should be NULL
AfterCancelURL	Normally it should be NULL
SaveAfterLogic	Normally it should be NULL
SaveBeforeLogic	Normally it should be NULL
IsSave	If 0 then records cannot be save and if 1 then Records can be save
IsBtnSaveTopVisible	If 1 then Save Button of Top is visible otherwise it is Disable
IsBtnCancelTopVisible	If 1 then Cancel Button of Top is visible otherwise it is Disable
IsBtnSaveAndCoutTopVisible	If 1 then SaveAndContinue Button of Top is visible otherwise it is Disable
IsBtnSaveBottomVisible	If 1 then Save Button of Bottom is visible otherwise it is Disable
IsBtnCancelBottomVisible	If 1 then Cancel Button of Bottom is visible otherwise it is Disable
PageType	NULL (Otherwise as per requirement it should be followings: Select, selectedit Report,Insert)
XMLControlValueColumn	NULL (Otherwise as per requirement it should be followings: XMLParameter)
Columns	Name of the column which we want to use as checkbox and having Boolean value otherwise it should be NULL
BtnCaption	NULL (Otherwise as per requirement we can change name of button like save, Generate etc.)
QueryReFreshTime	Set Query Refresh Time

Table 1.1: Fields of tbl_int_DashBoard

- b. After Make entry in above Table we have to make entry in tbl_int_DashBoardDetail. Each Entry in tbl_int_DashBoardDetail table having parentID is same as ID of tbl_int_DashBoard table:



Column	Description
ID	Unique Identity
Name	Name Of DashBoard
ParentId	It should be ID of tbl_int_DashBoard
Description	This field is used to display name of Dashboard at User side. (Normally it is same as Name)
GroupID	Normally it should be NULL
srno	Sequence Number of Dashboard for determining the sequence when there are more than one Dashboards
ColumnType	Type of column like pk, string, date, numeric, etc.
ColumnLabel	Name of column which you want to display at user side
ColumnDescription	Same as above field
ControlType	Name of control which you want to use like chart, label, grid, link etc.
ColumnStyle	We can set width and height as per requirement e.g. width:100%;
ColumnCellStyle	We can set columncellStyle otherwise it should be NULL
ReadOnly	If 1 then readonly otherwise 0
Visible	If 1 then Dashboard is visible otherwise 0
AutoPostBack	If 1 then autopostback otherwise 0
SaveAsXml	If 1 then it will save as XML otherwise 0
EndAngle	We can set EndAngle value of Dashboard in decimal digit
LabelPosition	We can set Label Position value of label in decimal digit
MinValue	We can set min value of Dashboard in decimal digit
MaxValue	We can set max value of Dashboard in decimal digit
MajorTick	We can set MajorTick value of Dashboard in decimal digit
MinorTick	We can set Minortick value of Dashboard in decimal digit
StartsAngle	We can set StartsAngle value of Dashboard in decimal digit
Value	Normally it is 144 When controltype is "chart" Otherwise NULL.
RangeNumber	We can set RangeNumber value of Dashboard in decimal digit
ChartTitle	Title of chart which you wants to display at user side



X-AxisTitle	Title of X-Axis which you wants to display at user side
Y-AxisTitle	Title of Y-Axis which you wants to display at user side
Interval	We can set Dashboard Refresh time
DataQuery	Query that through data display in Dashboard as per Requirement
PointerColor	We can set PoniterColor
GaugeBackColor	We can set GaugeBackColor
IsClickable	If you wants Click on Dashboard and open another page like Listview,View Page,etc. then set 1 otherwise set 0
NavigateUrl	URL to what should be opened when click on Dashboard.
IsWindow	Set 1 if dashboard open in Window otherwise set 0
WindowTitle	Title of Window which you wants to display at user side
XAxisVisible	If set 1 then XAxis is visible otherwise set 0
Legend	If You wants to Show Legend in Dashboard then set 1 otherwise set 0
DataFormatString	If You wants to Data Formatting then set 1 otherwise set 0
LeftOffsetControl	We can set LeftOffset Of Dashboard
LeftOffsetControlType	Normally it Should be NULL.
TopOffsetControl	We can Set Topoffset Of Dashboard
TopOffsetControlType	Normally it Should be NULL
lblForeColor	We can set Lable Font Color
lblFontSize	We can set Lable Font Size
lblFontName	We can set Lable Font
WindowNavigateUrl	Page URL to be redirected
PanelCellStyle	We can set PanelCellStyle otherwise it should be NULL
MultiSeries	If MultiSeries then set 1 otherwise set 0
cmbcallbackcontrol	DashboardName which are callback after change this particular control. Multiple callback control Dashboard names are used with comma (",") separated
ButtonType	Normally it should be NULL

Table 1.2: Fields of tbl_int_DashBoardDetail

- c. After Make Entry in above Table to make entry in tbl_int_DashBoardControl_Detail. Each Entry in



tbl_int_DashBoardControl_Detail table having parentID is same as ID of tbl_int_DashBoardDetail Table:

Column	Description
ID	Unique Identity
Name	Name Of DashBoard
ParentId	It should be ID of tbl_int_DashBoardDetail
Description	This field is used to display name of Dashboard at User side. (Normally it is same as Name)
ImageId	ID of image that should be displayed as icon when Dashboard initially loaded
SelectedImageID	ID of image that should be displayed as icon when Dashboard is selected
ExpandedImageID	ID of image that should be displayed as icon when Dashboard is expanded
RangeTo	We can set RangeTo value of Dashboard in decimal digit
RangeFrom	We can set RangeFrom value of Dashboard in decimal digit
RangeColor	We can set RangeColor
Srno	Sequence Number of Dashboard for determining the sequence when there are more than one Dashboards
SeriesType	Name Of Series which You want to use like pieseries, ColumnSeries, lineSeries,etc.
XAxisColumn	Name Of Column that You wants to Display on XAxis in Dashboard
YAxisColumn	Name Of Column that You wants to Display on YAxis in Dashboard
Columnwidth	We can set width of column
IsColumnAutofit	If we wants to set Autofit Column then set 1 otherwise set 0
IsStacked	If We wants to set Stack in Dashboard then set 1 otherwise set 0
cmdcallbackcontrol	DashboardName which are callback after change this particular control. Multiple callback control Dashboard names are used with comma (",") separated
GroupName	Normally it should be NULL
LableAppearance	Normally it should be NULL

Table 1.3: Fields of tbl_int_DashBoardControl_Detail

*Example:***1. Create OrdersInPipeLine Dashboard:**

- a. In this example we will create one Dashboard called as OrdersInPipeLine. This page having only one series Type i.e. ColumnSeries. First we have to make entry on tbl_int_DashBoard as following:

Column	Description
ID	QWERTY859HJK125HH55
Name	OrdersInPipeLine
ParentId	MJKUIOO890BNHJ566884569GG (It should be ID of function)
Description	OrdersInPipeLine
ImageId	NULL
SelectedImageID	NULL
ExpandedImageID	NULL
TableName	NULL
PKColumnName	NULL
IsPKIdentity	NULL
ApprovalColumn	NULL
ReadOnlyLogic	NULL
SrNo	10
AfterSaveURL	NULL
AfterEditURL	NULL
AfterContinueURL	NULL
AfterCancelURL	NULL
SaveAfterLogic	NULL
SaveBeforeLogic	NULL
IsSave	1
IsBtnSaveTopVisible	1
IsBtnCancelTopVisible	1
IsBtnSaveAndCoutTopVisible	1
IsBtnSaveBottomVisible	1
IsBtnCancelBottomVisible	1
PageType	NULL
XMLControlValueColumn	NULL
Columns	NULL
BtnCaption	Save
QueryReFreshTime	NULL



Table 1.4: tbl_int_DashBoard Entry

b. Now, we have to make entry in tbl_int_DashBoardDetail as Followings:

Column	Description
ID	SDFFF2A-SDEE-4411-B1E7-79FDF3O4526
Name	TeamOrderInPipeLine
ParentId	QWERTY859HJK125HH55 (It should be ID of tbl_int_DashBoard)
Description	TeamOrderInPipeLine
GroupID	NULL
srno	10
ColumnType	String
ColumnLabel	Chart
ColumnDescription	NULL
ControlType	Chart
ColumnStyle	position:absolute;top:500px;left:300px;
ColumnCellStyle	width:<math>\text{subtract}(\text{<session.width>,200)></math>;height:<session.height>
ReadOnly	0
Visible	1
AutoPostBack	NULL
SaveAsXml	0
EndAngle	100
LabelPosition	0
MinValue	1
MaxValue	200
MajorTick	10
MinorTick	5
StartsAngle	1
Value	144
RangeNumber	20
ChartTitle	BussCategoryWise Orders In PipeLine
X-AxisTitle	oppotunity_type
Y-AxisTitle	Amount
Interval	86400000
DataQuery	select oppotunity_type,round(sum(amount/100000),2) as Amount from view_OrdersInPipline group by oppotunity_type order by Amount desc
PointerColor	NULL
GaugeBackColor	NULL
IsClickable	True

NavigateUrl	listview.aspx?name=PipeLineOrders&&opportunity_type=<session.argument>
IsWindow	False
WindowTitle	NULL
XAxisVisible	True
Legend	False
DataFormatString	NULL
LeftOffsetControl	100
LeftOffsetControlType	NULL
TopOffsetControl	70
TopOffsetControlType	NULL
lblForeColor	NULL
lblFontSize	NULL
lblFontName	NULL
WindowNavigateUrl	NULL
PanelCellStyle	width:<math.subtract(<session.width>,0)>;height:600
MultiSeries	False
Cmbcallbackcontrol	NULL
ButtonType	NULL

Table 1.5: tbl_int_DashBoardDetail Entry

- c. Now, we have to make entry in tbl_int_DashBoardControl_Detail as Followings:

Column	Description
ID	1253
Name	Chart1
ParentId	SDFFF2A-SDEE-4411-B1E7-79FDF304526 (It should be ID of tbl_int_DashBoardDetail)
Description	NULL
ImageId	NULL
SelectedImageID	NULL
ExpandedImageID	NULL
RangeTo	NULL
RangeFrom	NULL
RangeColor	NULL
Srno	1

SeriesType	ColumnSeries
XAxisColumn	opportunity_type
YAxisColumn	Amount
Columnwidth	NULL
IsColumnAutofit	NULL
IsStacked	False
Cmdcallbackcontrol	NULL
GroupName	NULL
LableAppearance	NULL

Table 1.6: tbl_int_DashBoardControl_Detail Entry

Now, Dashboard of OrdersInPipeLine have been created and it look like following figure:

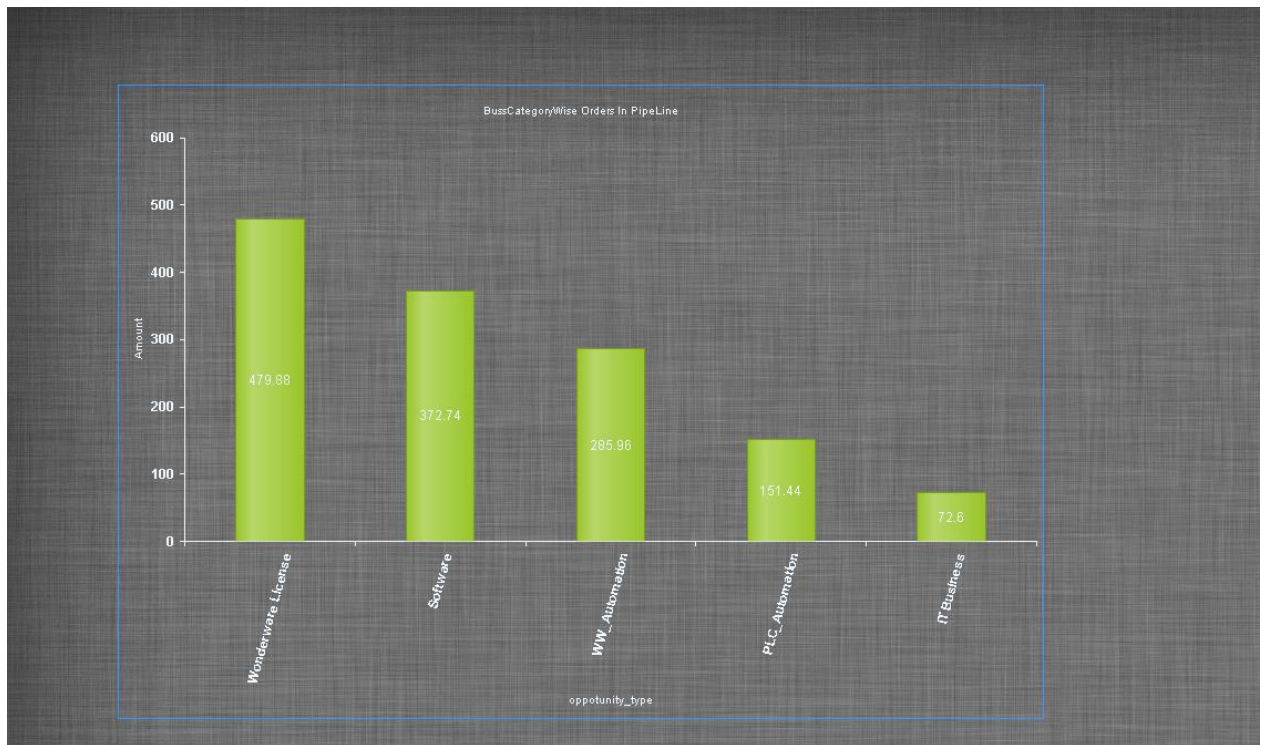


Fig. 1.1: Dashboard of OrdersInPipeLine

2. Series Type:

- a. **Pie Series:** A type of graph in which a circle is divided into sectors that each represent a proportion of the whole. We have to use SeriesType as pieseries.



- b. **Column Series:** A Column Series is a graphic representation of data. Column Series display vertical bar going across the Series horizontally, with the values axis being displayed on the left side of the Series. We have to use SeriesType as ColumnSeries.
- c. **Line Series:** A Line Series or Line graph is type of chart which displays information as a series of data points called 'makers' connected by straight line segments. It is basic type of chart common in many fields. We have to use SeriesType as lineSeries.

Example:

2. SeriesType:

- a. **Pie Series:** In this example we will create Dashboard called as AccountSummary. This page having only one series type i.e. pieseries. First We have to make entry on tbl_int_DashBoard as following:

Column	Description
ID	QWERTY859HJK125HH55
Name	AccountSummary
ParentId	RFEDCWSXQAZUJMTG596122 (It should be ID of function)
Description	AccountSummary
ImageId	NULL
SelectedImageID	NULL
ExpandedImageID	NULL
TableName	NULL
PKColumnName	NULL
IsPKIdentity	NULL
ApprovalColumn	NULL
ReadOnlyLogic	NULL
SrNo	10
AfterSaveURL	NULL
AfterEditURL	NULL
AfterContinueURL	NULL
AfterCancelURL	NULL
SaveAfterLogic	NULL
SaveBeforeLogic	NULL
IsSave	1
IsBtnSaveTopVisible	1
IsBtnCancelTopVisible	1



IsBtnSaveAndCoutTopVisible	1
IsBtnSaveBottomVisible	1
IsBtnCancelBottomVisible	1
PageType	NULL
XMLControlValueColumn	NULL
Columns	NULL
BtnCaption	Save
QueryReFreshTime	NULL

Table 1.7: tbl_int_DashBoard Entry

b. Now, we have to make entry in tbl_int_DashBoardDetail as Followings:

Column	Description
ID	SDFFF2A-SDEE-4411-B1E7-79FDF3045
Name	accountssummary
ParentId	QWY8J5HH665 (It should be ID of tbl_int_DashBoard)
Description	AccountSummary
GroupID	NULL
Srno	10
ColumnType	String
ColumnLabel	Chart
ColumnDescription	NULL
ControlType	Chart
ColumnStyle	position:absolute;top:500px;left:300px;
ColumnCellStyle	width:<math>\text{subtract}(\text{<session.width>,200)></math>
ReadOnly	0
Visible	1
AutoPostBack	NULL
SaveAsXml	0
EndAngle	100
LabelPosition	0
MinValue	1
MaxValue	200
MajorTick	10
MinorTick	5
StartsAngle	1
Value	NULL
RangeNumber	NULL
ChartTitle	Account Wise Summary
X-AxisTitle	AccountName
Y-AxisTitle	Amount
Interval	86400000



DataQuery	select isnull(AccountName,'No Account Assigned') as AccountName ,sum(basicamount) as Amount from vw_project where basicamount is not null and date_entered > '01-Apr-2014' group by AccountName order by sum(basicamount) desc
PointerColor	NULL
GaugeBackColor	NULL
IsClickable	False
NavigateUrl	NULL
IsWindow	False
WindowTitle	NULL
XAxisVisible	True
Legend	False
DataFormatString	NULL
LeftOffsetControl	100
LeftOffsetControlType	NULL
TopOffsetControl	70
TopOffsetControlType	NULL
lblForeColor	NULL
lblFontSize	NULL
lblFontName	NULL
WindowNavigateUrl	NULL
PanelCellStyle	width:<math>\text{subtract}(\text{session.width},40)>;\text{height}:600
MultiSeries	False
cmbcallbackcontrol	NULL
ButtonType	NULL

Table 1.8: tbl_int_DashBoardDetail Entry

- c. Now, we have to make entry in tbl_int_DashBoardControl_Detail as Followings:

Column	Description
ID	125452
Name	Chart1
ParentId	SDFFF2A-SDEE-4411-B1E7-79FDF3045 (It should be ID of tbl_int_DashBoardDetail)
Description	NULL
ImageId	NULL
SelectedImageID	NULL

ExpandedImageID	NULL
RangeTo	NULL
RangeFrom	NULL
RangeColor	NULL
Srno	1
SeriesType	pieseries
XAxisColumn	AccountName
YAxisColumn	Amount
Columnwidth	NULL
IsColumnAutofit	NULL
IsStacked	False
Cmdcallbackcontrol	NULL
GroupName	NULL
LableAppearance	NULL

Table 1.9: tbl_int_DashBoardDetail Entry

Now, Dashboard of AccountSummary have been created and it look like following figure:

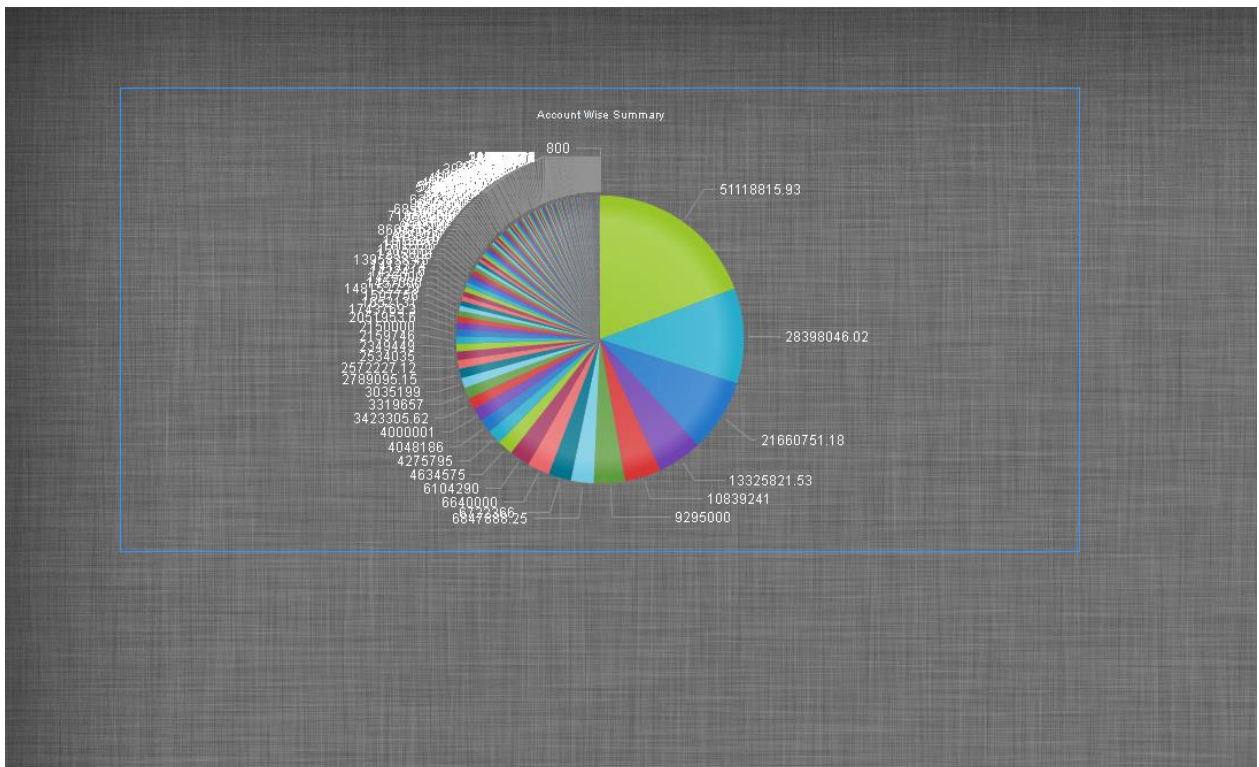


Fig. 1.2: Dashboard of AccountSummary



- b. **Column Series:** Example Of SeriesType Column Series is already Describe in Dashboard Example.
- c. **Line Series:** Followings are necessary fields for Entry of SeriesType LineSeries in tbl_int_DashBoardControl_Detail:

Column	Description
ID	1253
Name	Chart1
ParentId	SDFFF2A-SDEE-4411-B1E7-79FDF304526 (It should be ID of tbl_int_DashBoardDetail)
Description	NULL
ImageId	NULL
SelectedImageID	NULL
ExpandedImageID	NULL
RangeTo	NULL
RangeFrom	NULL
RangeColor	NULL
Srno	1
SeriesType	Lineseries
XAxisColumn	opportunity_type
YAxisColumn	Amount
Columnwidth	NULL
IsColumnAutofit	NULL
IsStacked	False
Cmdcallbackcontrol	NULL
GroupName	NULL
LableAppearance	NULL

Table 1.10: tbl_int_DashBoardDetail Entry

Now, Dashboard of AccountSummary have been created and it look like following figure:

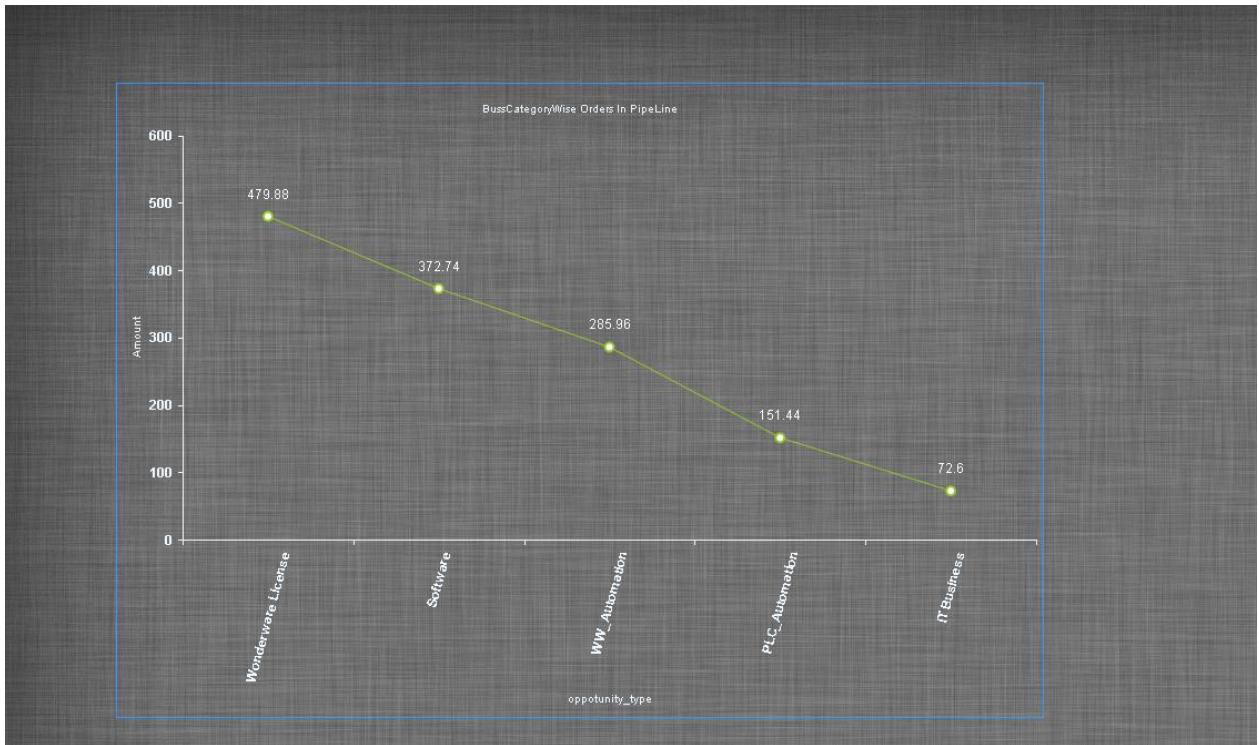


Fig. 1.3: Dashboard of OrdersInPipeLine



Exercise 2: Dashboard Click Event

Introduction:

Sometimes you may desire that, when clicking on any SeriesType Dashboard it should redirect you to some specific Page. This can be done by Only Two Changes in tbl_int_DashBoardDetail table.

Database:

Configuration Database

Database Objects:

Tables:

1. tbl_int_DashBoardDetail

Procedure:

1. Create Dashboard Clickable in tbl_int_DashBoardDetail

- a. To create Dashboard Clickable on any SeriesType you will have to modify its entry in tbl_int_DashBoardDetail table. Change following entries:

Column	Change To
IsClickable	If you wants Click on Dashboard and open another page like Listview,View Page,etc. then set 1 otherwise set 0
NavigateUrl	URL to what should be opened when click on Dashboard.

Table 2.1: Change required in tbl_int_DashBoardDetail

Example:

1. Create Dashboard Clickable in tbl_int_DashBoardDetail:

- a. If you wants to Create Clickable Dashboard on SeriesType ColumnSeries then Change following entries for tbl_int_DashBoardDetail Entry of OrdersInPipeLine Dashboard:

Column	Change To
IsClickable	True
NavigateUrl	listview.aspx?name=PipeLineOrders&&opportunity_type=<session.argument>

Table 2.2: Change required in tbl_int_DashBoardDetail

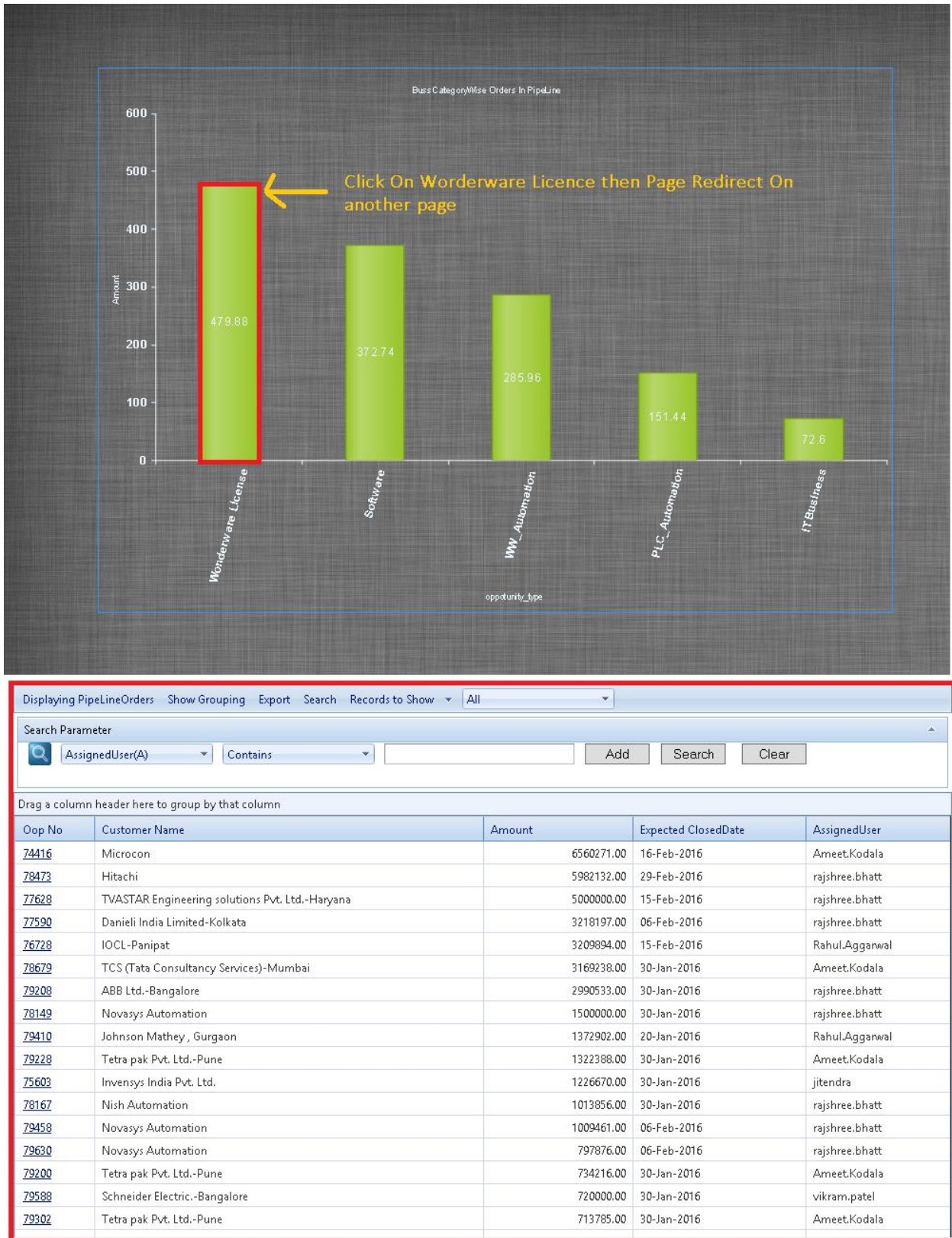


Fig. 2.1: Dashboard of OrdersInPipeLine with Click Event