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**BI Ass-3**

**Problem statement : To prepare list report , crosstab report and pie chart report**

**Introduction :** In this practical we will prepare the different types of reports, for a given dataset.

**Steps for Execution :**

**Step 1 :** Log in to your IBM Cognos Account.

**Step 2 :** Click on the top right corner and select New, select report. This should take us onto a new window.

**Step 3 :** In Insertable Objects (the first palette) right next to find, click on the "+" sign to add a data source. I have taken the "Great Outdoors Data Module" database available in "Sample".

**Step 4 :** Once the data source has been added, on the top of the screen click on "Reports" and create a new page. Drag and drop the selected columns on the page space.

**Step 5 :** The columns "Product Line" from "Products" , "Country" from "Retailers" and "Quantity" from "Sales" have been selected . The countries- Germany, Japan and USA were selected and the list was grouped by Product Line using the group/ungroup function from the "Toolbar". The sum of each quantity according to the product line was calculated using the "Summarize" function.

**Step 6 :** To display a crosstab, go to "Insertable Objects" select "Toolbox" and select the "Crosstab" option. Drag the "Country" as column attribute and "Product Line" as row attribute. The countries- Germany, Japan and USA were selected and the list was grouped by Product Line. The sum of each quantity according to the product line was calculated.

**Step 7 :** To display a Pie Chart, go to "Insertable Objects" select "Toolbox". From "Toolbox", select the "Visualization" option and select "Pie Chart". Select quantity as the size and product line as the segment. To display percentages, Go to "Properties" -> "Annotations"-> "Display %"

Output :

1. List Report :

Product Line	Country	Quantity
Camping Equipment	Japan	6,556,032
	United States	69,174,720
	Germany	10,961,664
Camping Equipment - Total		86,692,416
Golf Equipment	Germany	2,413,596
	Japan	2,199,930
	United States	9,988,788
Golf Equipment - Total		14,602,314
Mountaineering Equipment	United States	17,686,724
	Germany	3,331,574
	Japan	1,519,432
Mountaineering Equipment - Total		22,537,730
Outdoor Protection	United States	29,424,352
	Japan	2,308,510
	Germany	5,381,104
Outdoor Protection - Total		37,113,966
Personal Accessories	United States	20,926,248
	Japan	1,949,858
	Germany	3,272,464
Personal Accessories - Total		26,148,570
Overall - Total		187,094,996
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2. Crosstab report :

Quantity	United States	Japan	Germany	Total
Camping Equipment	17,489,926	3,278,016	5,480,832	26,248,774
Golf Equipment	2,497,197	1,099,965	1,206,798	4,803,960
Mountaineering Equipment	4,660,199	759,716	1,665,787	7,085,702
Outdoor Protection	7,519,360	1,154,255	2,690,552	11,364,167
Personal Accessories	15,940,885	4,237,485	4,651,945	24,830,315
Total	48,107,567	10,529,437	15,695,914	74,332,918

### 3. Pie Chart :

#### Product Line

Camping Equipment

Golf Equipment

Personal Accessories

Outdoor Protection

Mountaineering Equipment

