


# TD4: Crosstab Report

## Exercise 1: Create a simple Crosstab Report

### Purpose:

You want to create and format a report to show revenue generated by order method for each year. You want to see yearly trends in sales for each order method.

Revenue		Camping Equipment	Golf Equipment	Outdoor Protection	Personal Accessories	Mountaineering Equipment
Telephone	2010	83,487,596.88	44,344,120.83	3,141,169.76	15,940,692.79	
	2011	47,582,256.31	27,340,352.57	3,293,287.7	18,428,095.15	10,876,292.36
	2012	17,715,451.4	6,411,233.64	597,485.63	5,979,547.46	6,586,124.67
	2013	8,149,587.54	734,405.51	76,371.43	3,173,296.98	5,898,410.37
Web	2010	125,829,519.92	49,583,401.41	13,735,716.85	284,622,826.47	
	2011	270,483,415.86	116,939,894.38	18,479,270.8	411,577,877.16	65,858,489.48
	2012	426,353,875.75	203,325,898.81	8,570,078.91	568,868,877.83	132,738,443.67
	2013	311,192,071.84	157,698,057.23	4,166,745.33	427,367,391.98	117,910,256.92

Pivot Crosstab using Swap Rows and Columns 

## Exercise 2: Create a complex Crosstab Report

### Purpose:

Management needs you to create a crosstab report for users to analyze the revenue generated and the quantity sold for different order methods. You will add data to examine the revenue generated by different order methods in the countries where your products are sold. You will also add order year data to the report and explore the flexibility of layout options using the crosstab drop zones.

The main tasks for this exercise are as follows:

- Examine Revenue and Quantity by each order method for each product line.
- Examine Revenue generated by different order methods varies from country to country.
- Examine data for order methods and years.
- Sort Crosstab items

		2010	2011	2012	2013	Total
Camping Equipment	Revenue	83,487,596.88	44,344,120.83	3,141,169.76	15,940,692.79	146,913,580.26
	Quantity	1,095,053	5,993,784	4,193,102	4,103,178	16,385,117
Outdoor Protection	Revenue	38,165,821.97	28,008,574.68	19,349,175.04	4,471,825.28	89,995,476.97
	Quantity	1,611,258	4,111,050	1,079,555	829,248	7,631,111
Personal Accessories	Revenue	191,847,059.51	456,323,355.9	534,059,438.42	443,623,449.05	1,625,859,302.88
	Quantity	7,872,119	3,987,327	19,758,036	3,081,994	34,700,476
Mountaineering Equipment	Revenue	107,074,863.94	151,319,303.26	191,523,949.7	7,479,411.98	457,337,528.88
	Quantity	7,444,713	3,769,192	3,645,116	158,214	15,017,235
Golf Equipment	Revenue	153,583,450.98	586,938,427.97	249,110,270.55	174,749,818.29	1,164,381,967.79
	Quantity	1,892,982	1,297,190	6,828,772	1,198,154	11,017,198
Australia	Revenue	19,278,562.15	28,868,882.82	28,323,874.25	608,879.72	85,380,199.94
Austria	Revenue	11,586,084.82	19,243,065.48	25,248,987.68	21,881,756.43	66,960,994.41
Belgium	Revenue	21,594,249.39	29,345,821.17	19,882,994.91		70,823,065.47
Brazil	Revenue	17,599,891.21	22,560,241.15	24,631,883.32	21,447,999.23	86,239,915.91

## Exercise 3: Sort and Format Crosstab Report

### Purpose:

Sales Managers want you to create a crosstab report with data in which users can easily understand the sort order and can distinguish between data based on appearance. The report should show revenue for each year of operation for each Product type within each Product line. In the same crosstab, you want to display Revenue for each Branch Region.

- Report Items: Product Line, Product type, Branch region and Year
- Show Total from all years and Total from each product line.
- Sort Product line and Year by Ascending
- Sort Branch region by descending value from Revenue
- Format Report as follows

Revenue		2010	2011	2012	2013	Total
Personal Accessories	Binoculars	29,216,444.88	30,310,673.76	39,974,426.94	31,003,208.47	130,504,653.2
	Eyewear	154,310,475.02	208,648,805.39	282,228,185.14	221,039,548.33	667,125,958.48
	Knives	36,374,634.09	33,184,183.25	47,704,144.36	35,177,477.29	152,439,439.09
	Navigation	61,588,510.99	43,724,589.8	82,330,073.61	49,837,497.32	237,480,671.72
	Watches	120,117,025.43	140,475,423.7	161,774,588.37	124,425,327.69	546,892,425.26
Personal Accessories		391,647,093.61	456,323,355.9	594,009,408.42	443,693,449.85	1,885,673,307.78
Central Europe	Revenue	429,321,196.74	199,225,923.65	675,574,287.12	499,893,272.05	2,143,494,758.56
Americas	Revenue	192,230,456.3	239,213,647.65	312,037,992.91	233,905,733.74	977,087,880.8
Asia Pacific	Revenue	166,748,977.65	212,250,513.92	375,621,652.9	204,564,028.67	959,185,173.14
Northern Europe	Revenue	70,230,147.41	90,215,846.68	117,146,067.94	91,245,289.26	368,837,351.29
Southern Europe	Revenue	58,324,327.62	75,279,853.29	115,438,891.83	87,357,102.25	336,399,674.99

# TD4: Crosstab Report

## Exercise 4: Unrelated Items in a Discontinuous Crosstab

Create a report showing revenue and quantity for each product line, year and quarter by sales region.

- Rows: Product line, Year and Quarter
- Columns: Branch region, Revenue and quantity
- Format columns colors
  - Revenue column by red and Quantity column by blue

The results appear as follows:

		Americas		Asia Pacific		Central Europe		Northern Europe		Southern Europe	
		Revenue	Quantity	Revenue	Quantity	Revenue	Quantity	Revenue	Quantity	Revenue	Quantity
Camping Equipment		481,445,781.04	8,101,882	421,839,391.62	7,368,131	343,045,048.36	5,904,428	180,851,395.89	3,046,563	181,164,248.13	2,882,345
Golf Equipment		217,262,995.22	1,544,411	193,677,873.68	1,338,406	153,632,833.39	1,071,235	24,424,000.9	592,168	77,413,364.7	567,481
Outdoor Protection		23,002,647.63	3,819,457	19,716,018.32	3,114,960	17,498,070.77	2,800,923	3,346,431.17	1,310,804	7,440,328.31	1,188,301
Personal Accessories		132,240,058.98	2,730,299	116,715,219.51	2,387,747	1,540,675,699.15	27,771,811	49,825,913.97	1,050,963	46,307,418.17	956,885
Mountaineering Equipment		123,127,387.88	2,948,533	107,585,775.01	2,571,299	68,951,532.89	2,146,207	46,091,108.04	1,131,215	44,884,319.08	1,102,837
2010	Q1	47,381,351.43	1,117,915	41,548,840.8	970,249	101,800,331.59	2,068,747	17,178,637.94	394,586	13,795,543.75	327,561
	Q2	46,446,442.22	1,161,957	39,682,191.16	989,504	105,169,148.29	2,189,147	17,117,291.4	419,849	13,729,311.5	345,261
	Q3	50,130,435.79	1,163,992	43,885,141.25	1,010,004	108,583,088.88	2,203,282	17,361,264.35	401,471	14,290,375.98	331,556
	Q4	48,272,228.86	1,127,027	41,630,804.64	966,587	112,268,617.98	2,236,310	18,072,953.72	411,419	14,509,794.39	340,296
2011	Q1	61,679,289.83	1,369,148	59,312,128.53	1,268,246	134,130,313.2	2,677,977	21,984,786.32	489,797	19,121,944.65	453,259
	Q2	56,910,812.55	1,181,071	49,277,462.96	1,029,775	129,735,336.05	2,481,726	22,659,178.67	462,374	19,587,920.63	424,697
	Q3	57,195,724.98	1,159,624	49,206,968.1	998,645	132,664,137.27	2,539,454	22,481,473.66	447,998	19,531,365.04	411,132
	Q4	63,427,920.49	1,312,751	57,453,659.23	1,194,136	142,708,092.13	2,722,561	23,086,208.1	471,016	20,038,622.77	429,298
2012	Q1	72,919,470.22	1,289,166	61,699,029.76	1,101,646	151,653,159.86	2,677,782	29,214,791.98	516,210	28,537,818.45	530,003