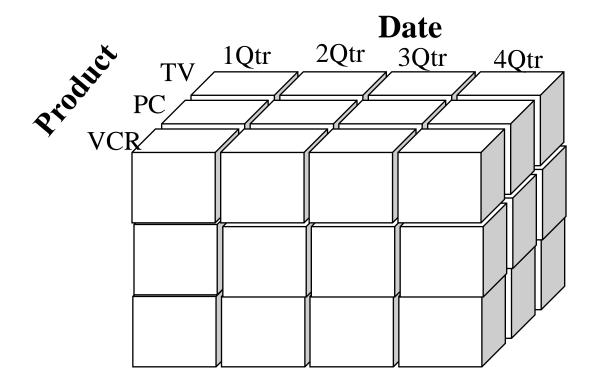
OLAP operations

Data warehouses and OLAP tools are based on a multidimensional data model. This model views data in the form of a data cube.

A Sample Data Cube



U.S.A

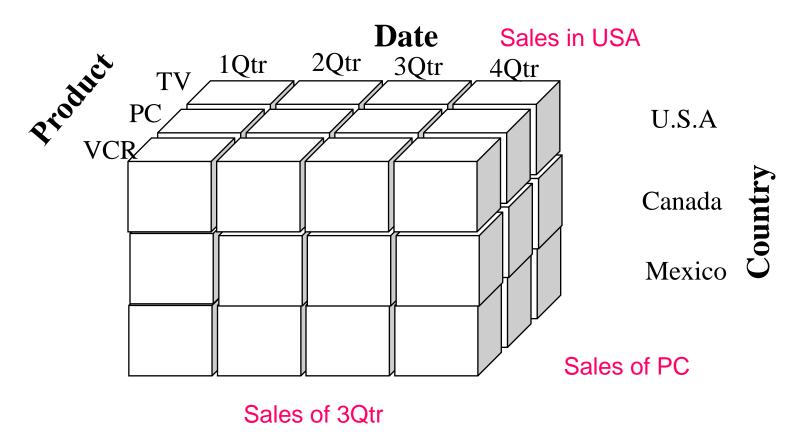
Canada

Mexico

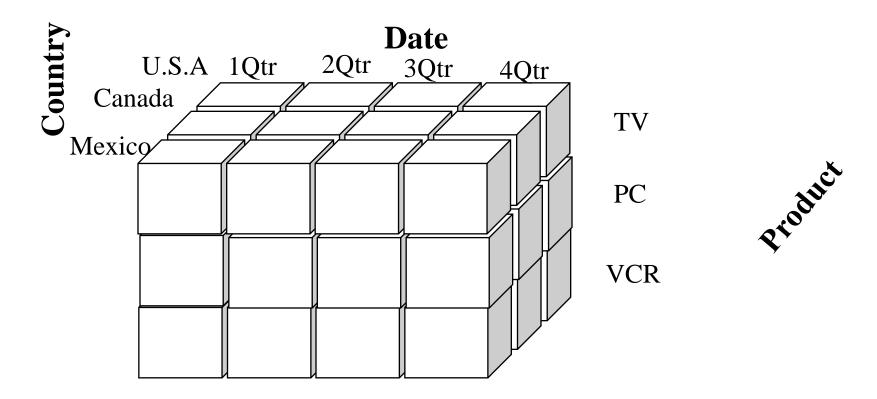
Country

Slice and Dice Sales of 3Qtr in USA

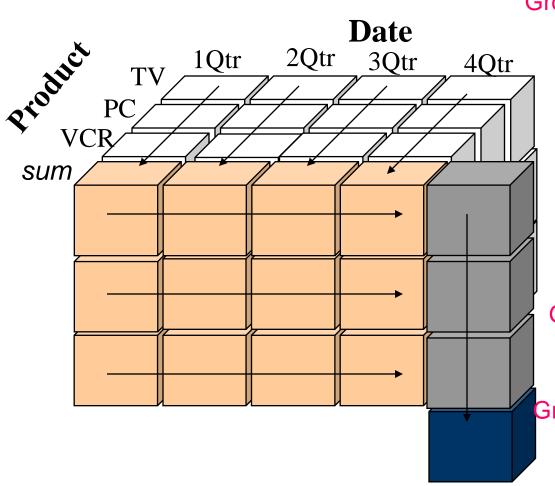
Sales of PC of 3Qtr in USA



Pivot (rotate):



Roll up (drill-up) (dimension reduction example)



Group by date, country

- reduced product dimension

U.S.A

Canada

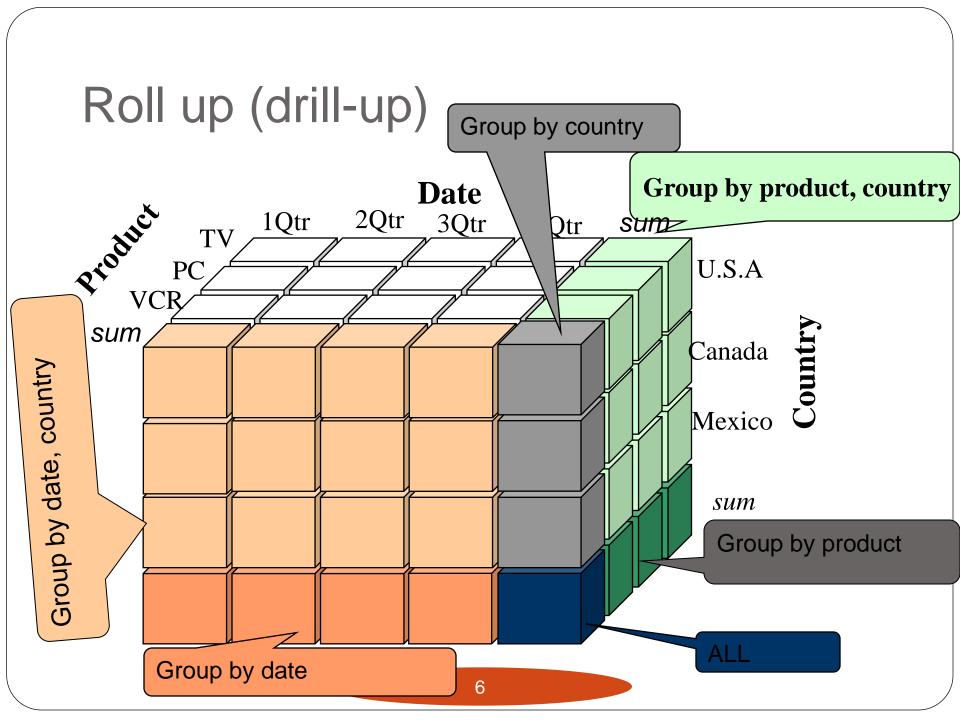
Mexico

Group by nothing

- reduced all dimensions

Group by country

- reduced date dimension



Drill down (roll-down)

