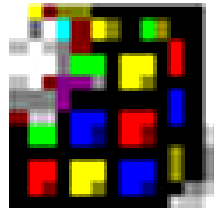
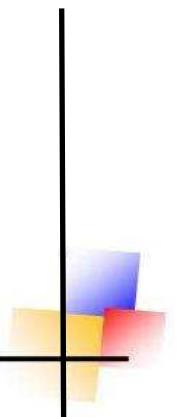


Advanced software applications



DataCubeX Professional



Introduction

With the concept "OLAP analysis" (On Line Analytical Processing) we refer to a group of software techniques, used to process quickly large and complex amounts of data. Specific procedures allow managers and analysts to display graphically financial and statistical data: this allows operators to solve problems connected to the control management and it is a way to understand your own information better. The starting and basic point for the system is to answer to all possible user questions without wasting their time since data processing is done in real time. OLAP analysis is also the basic component for the "Data Warehouse": companies can use it for example to analyze sale results, check the trend of purchase costs for goods, evaluate the success of a marketing campaign and so on.

When operator create a OLAP database, they basically take a picture of information in a specific period of time (like the ones in a relational database for example) and then information are "changed" into multidimensional ones. At this point operator can question the database and get get quicker answers than the ones they could get, questioning different types of databases. The OLAP structures, created for this purpose, are called multidimensional "cubes". They can be created in many different ways but the most common one requires a "star" diagram: in the main oval operators list the main things required to create the enquiry and then there are different tables with "sizes" that specify the way used to group data. For example a customer master can be grouped for city, municipality or region and customers may be linked to products or grouped for categories. The calculation of all possible combinations for these groups creates a OLAP structure that can potentially include all answers to every single combination.

The OLAP system allows users to extract both general than specific data, using functions like filters, files and group of data and time intervals of analysis. Total amounts in between and the final ones will be automatically calculated again. The main instrument for the analysis and manipulation of data is the same as a dynamic and electronic working sheet. The related components – columns and lines – are "keys" needed for the manipulation. Acting on lines and columns the system performs automatically all calculations and it displays data in different formats.

User can issue autonomously all reports they need, processing single groups of data, with no need of support by corporate ICT functions. This saves time to ICT departments that do not need to extract data and corporate reports all the time and users are free to get all essential information whenever they want.

Like it has been said before, OLAP divides data in two groups: "facts" (numbers, called also "measures") and "sizes" (descriptions). Facts are grouped in a single graphic display by algorithms and users have to define their depth in grouping and batching.

An electronic sheet can only display data in a plain structure: OLAP analysis are the best instrument when users have to analyze data considering multiple factors. An OLAP table filled with data such as descriptive columns and other columns with data can be an effective and cheap way to analyze that specific table and issue related reports.



Points of strength

Speed: DatacubeX is very fast in processing data and that allows users to manage constantly and in real time the corporate business, reducing strongly risks for the company.

User-friendly: a simple and intuitive interface makes DatacubeX easy to learn and to be used by users who are familiar with Office applications.

Integration: DatacubeX is completely integrated with Microsoft Office applications; users can import or link corporate data from a wide range of applications like Access, Excel, Outlook.

Customization: users can create and display analysis according to their needs. They can highlight specific areas, adding remarks or suggestions, they can choose different styles and different levels of detail and focus.

Areas of application

OLAP analysis can be used in different corporate areas like:

Analysis related to :

sales

marketing

credit check

management control

tax accounting

check of "stocks" and shifts in the warehouse

production

quality check

human resources

and many many more....

Some examples of analysis:

#	Operation	Sizes	Facts	Purpose
1	Sales	Region, municipality, customer, product category, product, Time, agent	Price, quantity, amount	Multidimensional analysis of sales and profits in a company
2	Habit	Time, product category, product, format, region, supplier, customer	Average price, quantity, volume	Analyze customer prices and general expenses
3	Prices	Time, product category, product, region, supplier	Average price	Analysis that compares average prices of products in different countries done by all different suppliers
4	Sales	Time, training, profession, income, gender, age, region, product category, product	Average price, quantity	Give results for sale force meetings
5	Inventory	Time, region, warehouse, product category, product	Average price, quantity, life (in days)	Analyze stocks and inventories
6	Cash flows	Time, collections – expenses, customer, department	Value	Check financial flows according to banks and investment companies
7	Estimate	Time, department, profit/cost centre, customer	Estimate, Summary, changes	Calculations managed by departments and/or cost centres in a company
8	Customers in the accounting	Time, customer, signs, activities, receipts	Debt, accreditation, activities	Different analysis of the balance in different functions
9	Financial notifications	Time, index categories	Value	Universal instrument for financial relationships
10	Web statistics	Time, page, Referrer, Search Engine, guest	Time spent to load the page, counting	Analyze network traffic and activities of guests in a website
11	Production volume	Time, region, product, quality	Quantity, price	Analysis of the production structure, analysis of the change for increasing and decreasing stocks, comparison between different regions

Features

- Simple, fast, user-friendly and intuitive
- Integration with Microsoft Office and other operational applications

Technical functions

- Data management
 - link, definition and creation of queries using a simple interface
 - Data import and update performing simple and guided operations
 - Data import from any data source, that can be accessed, and in standard formats for ex.: Text, Excel ,Access, Dbase, SQL Server ,Oracle ,As400 , and so on

Database:

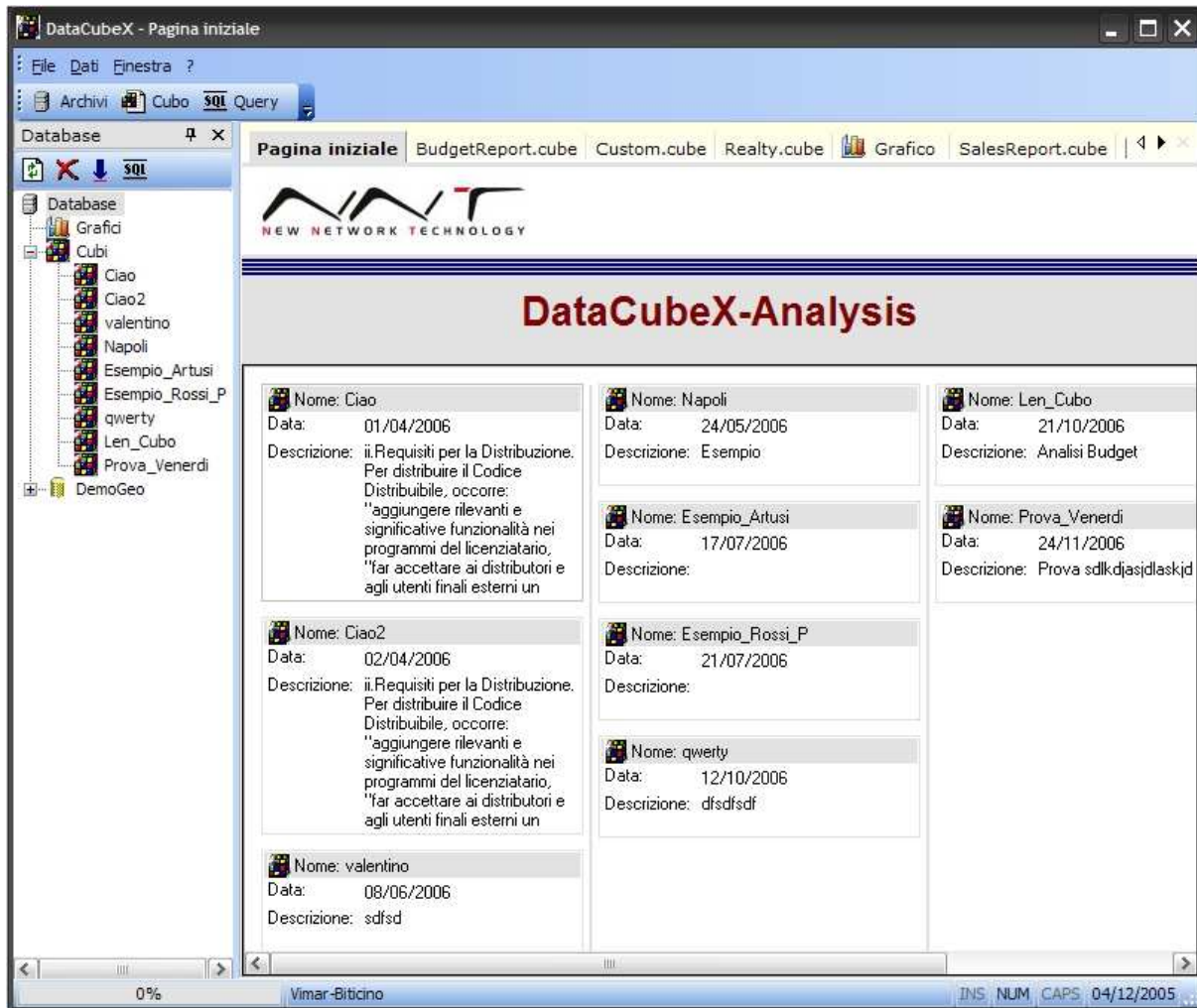
- Microsoft SQL Server 2000/MSDE
- Microsoft SQL Server 2005/Express Edition

Basic hardware and software requirements:

- PC pentium III 1 Ghz or higher
- CD-ROM
- Scheda video (1024 x 768) or higher
- 256 MB di RAM (if other applications are used at the same time, more RAM is required)
- 1.2 GB for installation
- Microsoft windows 2000 Professional or higher
- Internet Explorer 6.0 or higher

Screenshots

DataCubeX's main application field



OLAP Cube Sample

anno	mese	Valore	Trend	Trend_Grafico
2004	gennaio	1.087.977,56	0,00%	0,00
	febbraio	1.742.153,89	+ 60,13%	
	marzo	1.870.014,11	+ 7,34%	
	aprile	1.895.877,00	+ 1,38%	
	maggio	1.879.724,42	- 0,85%	
	giugno	1.912.228,34	+ 1,73%	
	luglio	1.670.403,45	- 12,65%	
	agosto	373.004,42	- 77,67%	
	settembre	1.880.012,45	+ 404,02%	
	ottobre	1.574.557,39	- 16,25%	
	novembre	1.590.611,63	+ 1,02%	
	dicembre	1.034.098,43	- 34,99%	
	Totali	18.510.663,09	0,00%	0,00
2005		2.374.213,82	- 87,17%	
Totali		20.884.876,91	0,00%	0,00

Chart setting sample 1

gennaio	1.087.977,56	0,00%	0,00
febbraio	1.742.153,89	+ 60,13%	
marzo			
aprile			
maggio			
giugno			
luglio			
agosto			
settembre			
ottobre			
novembre			
dicembre			
Totale			

Impostazione Grafico

Dati da visualizzare:

Dati

Totali di Colonna

Totali di Riga

Grafico: Barre 3D

Visualizza Legenda:

Aggiungi Trend:

Aggiungi Media:

Titolo:

Selezionare solo campi numerici.

OK
Annulla

Chart setting sample 2



Chart setting sample 3

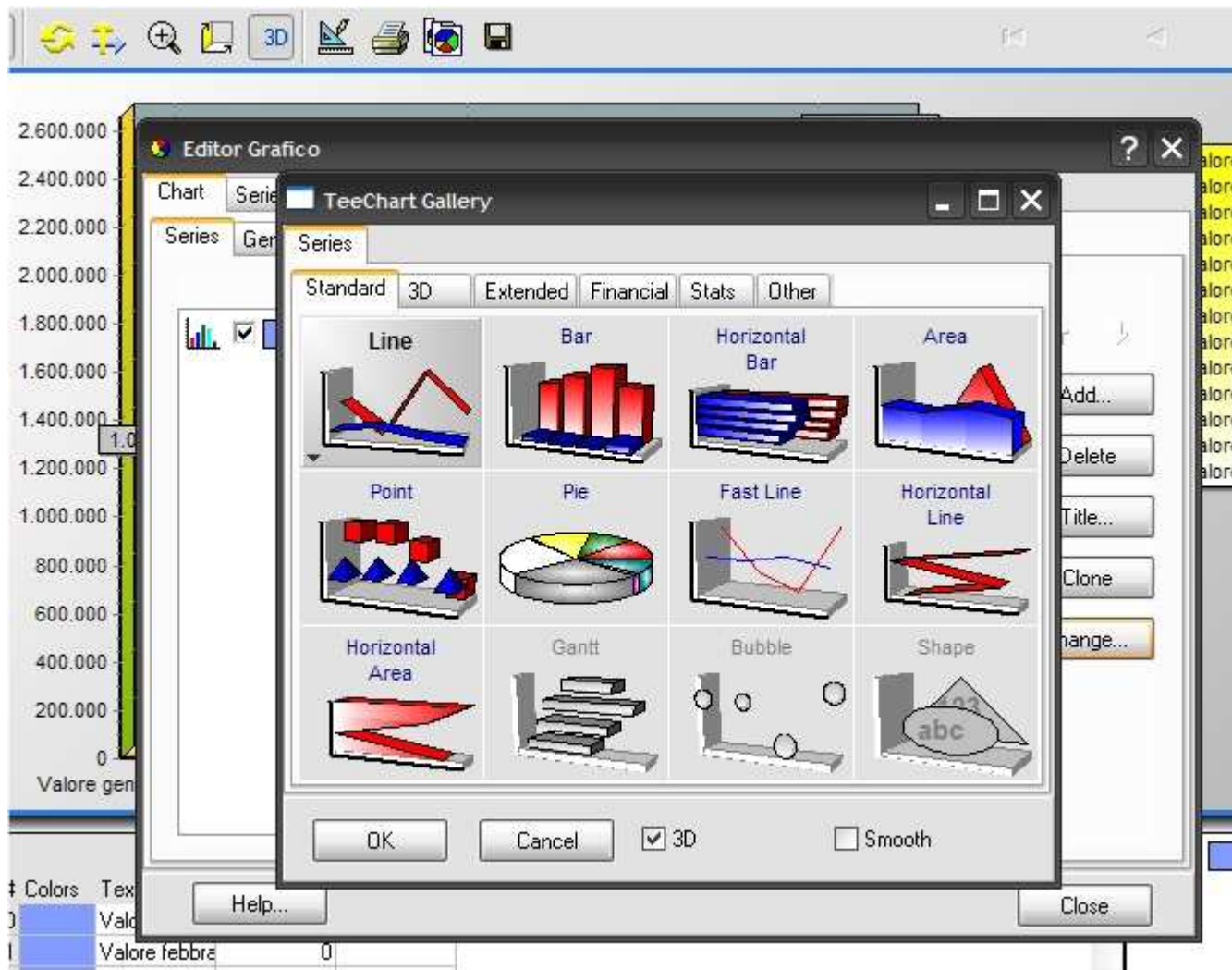
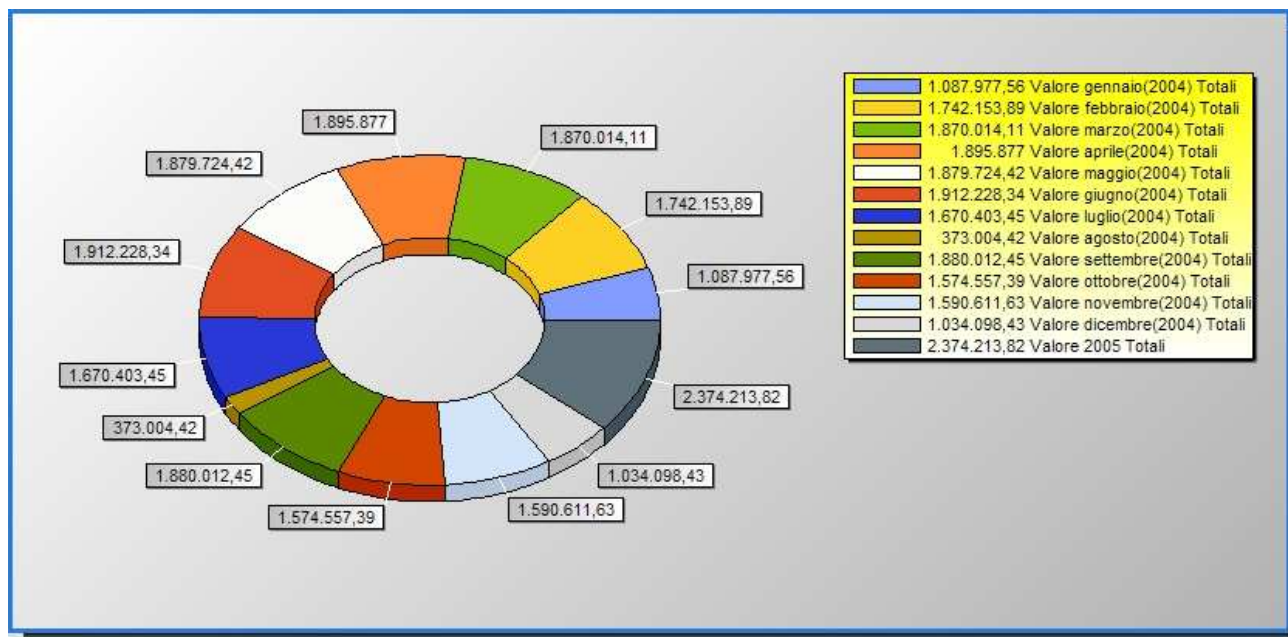


Chart setting sample 4



Integrated visual query designer

