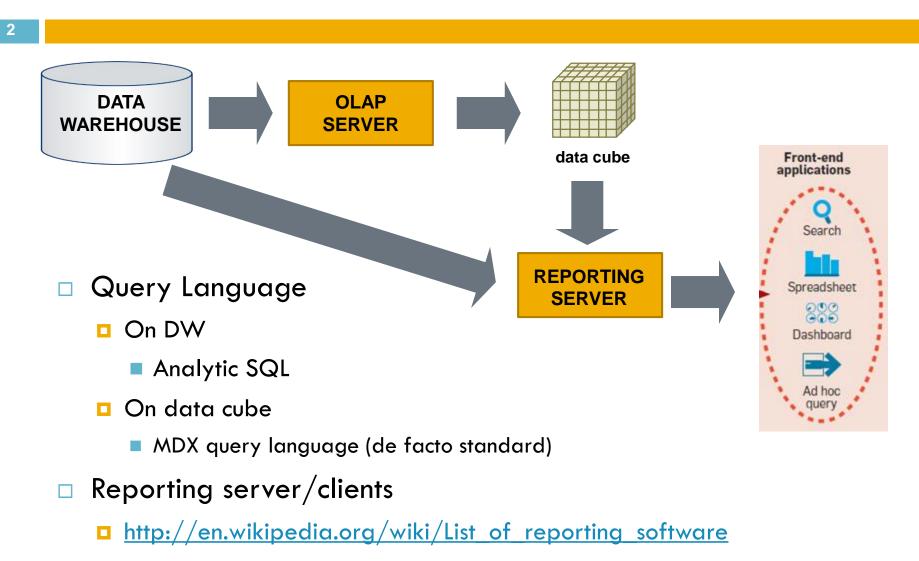
DATA SCIENCE LABORATORY

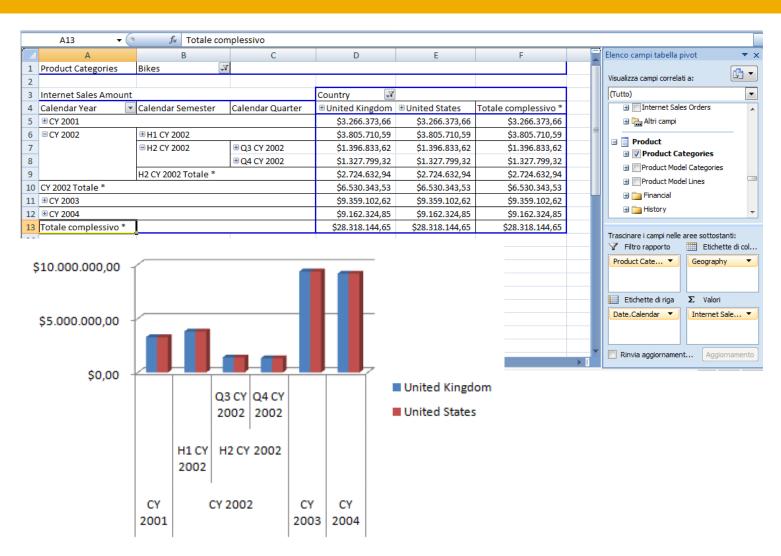
Reporting and PowerBI

Data Science & Business Informatics Degree

Reporting from DW/OLAP



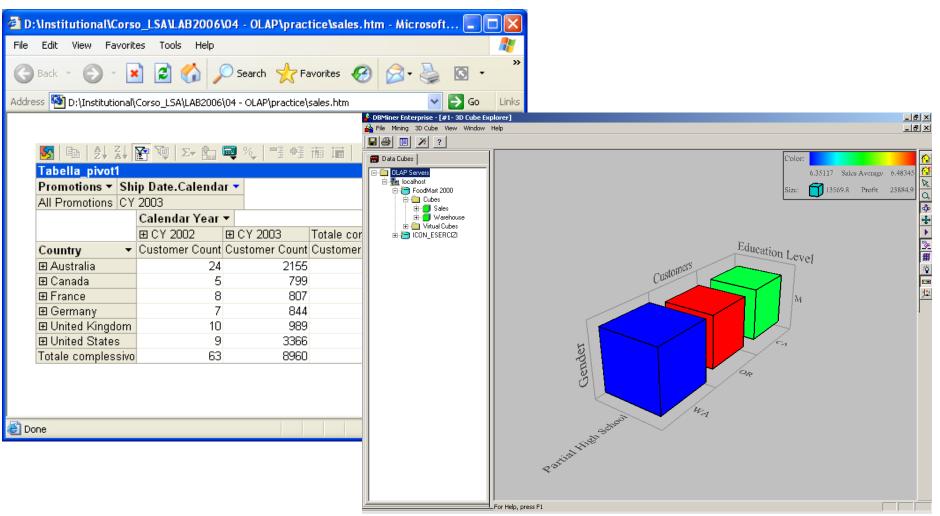
Clients with Excel (Pivot tables)



Business Intelligence Lab

Clients with browsers, 3D visual analytics

4

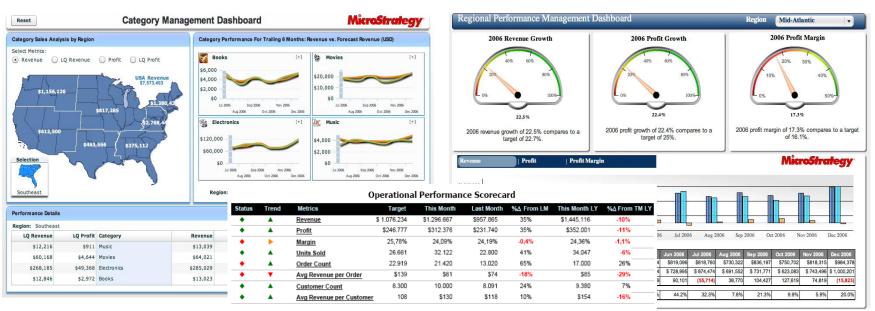


Clients: Dashboards

- Dashboards, scorecard («cruscotti») are intented for
 - a quick and easy delivery of the overall state of company business status
 - with a strong visual component
 - involving few dimension and measures
 - Space, time, branches
- They represent the end product of datawarehousing

Clients: Dashboards

https://www.microstrategy.com/us/get-started/demo



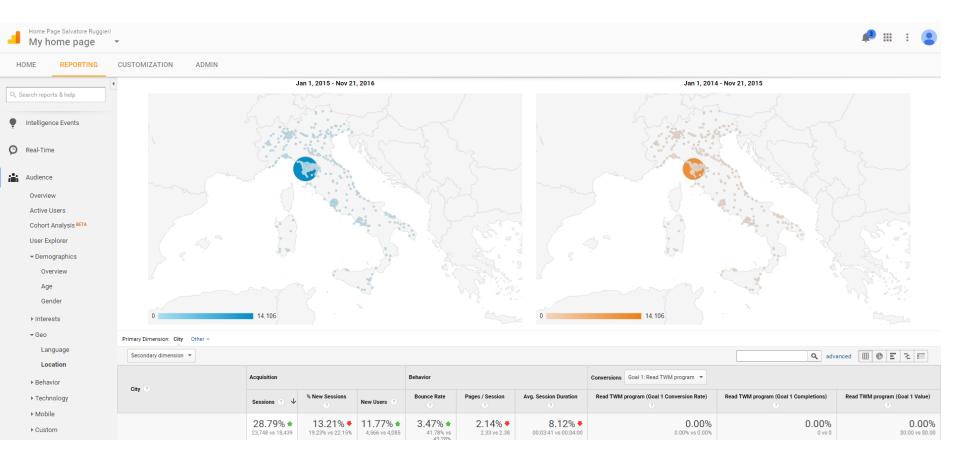
This Month: Dec 04 Trend 🛓 From Prior Month: 🛦 More than 10% > Between -5% and 10% 🔻 Less than -5% Abbreviations: LM = Last Month LY = Last Year



Clients: Dashboards

7

https://www.google.com/intl/en/analytics/



SQL Server Suite

8

	On-premises	Cloud
DB/DW	SQL Server	Azure
Data integration	SQL Server Integration Services (SSIS)	Power Query for Excel
OLAP	SQL Server Analysis Services (SSAS)	Power Pivot for Excel
Reporting	SQL Server Reporting Services (SSRS) & Power BI Desktop	Power Bl



Reporting server: SSRS

SSRS is a tool for Reporting

- It can be used independently from SQL Server as data source
- Development with SSDT
- Data sources
 - Relational, OLAP, Data mining
- Type of reports
 - Table, Matrix, Chart, ...
- Our Server:
 - Set in Project properties -> TargetServerURL
 - http://apa.di.unipi.it/reportserver
- Access to reports
 - Web: <u>http://apa.di.unipi.it/reports</u>
 - Web service
 - Export to Excel, PDF, HTML, XML, ...

Power BI Desktop

PBI Desktop is a tool allowing the generation of reports

The reports are local in your machine and may be moved to the cloud in the future (Power Bi Services)

The report may be deployed in a specific server accessible by web by any user wants navigate them

