# The Myth of Business Intelligence

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### Agenda

- Looking at the Past
- The Chasm
- Common Myths
- Filling the Void

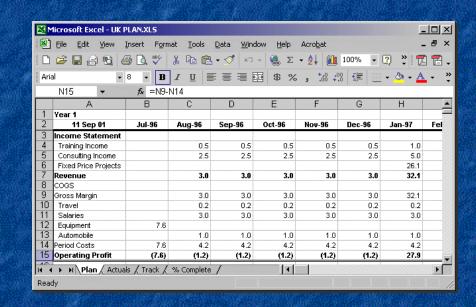




- Sequential Processing
- 'Flat' Reports
- 6 Months to produce
- Slow to respond
- Out of date before implemented



- Personal Computing
- Very flexible
- Time Consuming
- Tedious
- Instant





Reporting Systems



Decision Support Systems





- Database Engines
- Classic Express / SAS etc.
- pcExpress v1.5 released in 1982



### That was all pre-Windows





- Microsoft Windows
- IBM OS/2



Decision Support Systems



**Executive Information Systems** 



What were the differences?

- Graphical User Interface Let's all imitate the Microsoft Interface
- Supposedly more "Intuitive"



Nothing much has changed since then!



"The query/report writers and spread-sheets have been extremely limited in the ways in which data (having already been retrieved from the DBMS) can be aggregated, summarized, consolidated, summed, viewed, and analyzed."

E.F. Codd, S.B. Codd and C.T. Salley Providing OLAP to User-Analysts



"Most notably lacking has been the ability to consolidate, view, and analyze data according to multiple dimensions... called 'multidimensional data analysis"

E.F. Codd, S.B. Codd and C.T. Salley Providing OLAP to User-Analysts



Business Intelligence is the process of transforming *data* into *information* and through discovery transforming that information into *knowledge*.

**Gartner Group** 

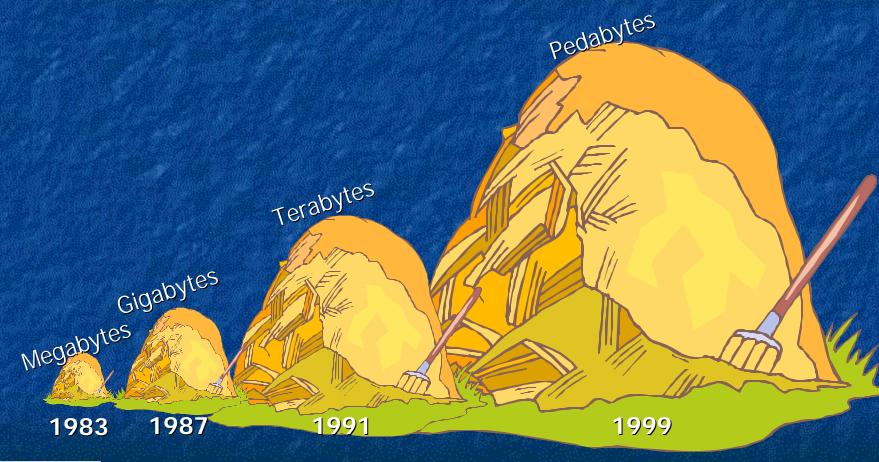


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### The Chasm

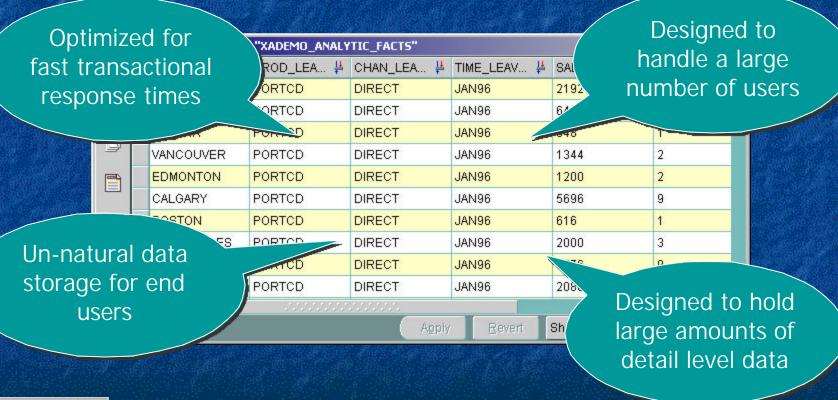




### Common Myths



# Relational Databases are Great for Business Intelligence ...





#### Cubes R Us ...

Optimized for fast slice, dice and pivot

Natural "view" of the data in the eyes of end users Provides fully flexible end user functionality

Language allows ability to model complete cubes



# Executives want to be able to rotate their reports ...



"I just want the system to make my job easier"

> "Can't this thing tell me what I want to know without me having to dig for it?"



# Executives want to be able to build their own reports ...

"What do I pay consultants and my IT department for?"

"I have technofobia, I really can't handle this!"





## Executives need to be able to drill to the lowest level of detail ...

"I don't trust the people beneath me to do their job properly"

"I like having access to all the data that I was familiar with..."

"I'm a hands on kind of manager – I need the information"







What are the business questions that need to be answered?

Can we build

DB structures to

hold the rules?

What is the sequence to the rules?

What

parameters

drive the rules

and

processes?



### Change the way we build

- The Analysis phase must change to reflect the fact that we are going to build a system using the Business Rules Model.
- The Database Design will change to reflect the new model.
- The Menu navigation must change to reflect the new model.



### Change the Analysis Phase

- Identify key users and groups.
- Walk through the Analysis process that each of the users and groups works through.
- Examine current reports, identify parameters that cause them to highlight particular figures.



### Change the Analysis Phase

- Build the Business Rule Model.
- Conceptualize the models that will be needed to support the Business Rule Model.
- Determine the inter-relationship between the Rules.



### Change the Database Design

- Build User-based structures that hold history and favorites etc.
- High level aggregate objects (Tables / Measures) that provide fast access to summary level data.
- Key measures based on high level enquiries by users.



### Change the Database Design

- Question the "coolness" of designs with the "So What?" question.
- Design to make use of usage tracking information.



### Change the Menu style

- Ditch traditional Menus.
- Menus should be structured along the Business Rules time line.
- The interface should mould itself to the end-user.



### Change the Menu style

- The Logic of the Interface should match the Business *Process*.
- The Links between the interface and the models should be seamless.
- Each user must be able to reset the parameters for any Business Rule Model.



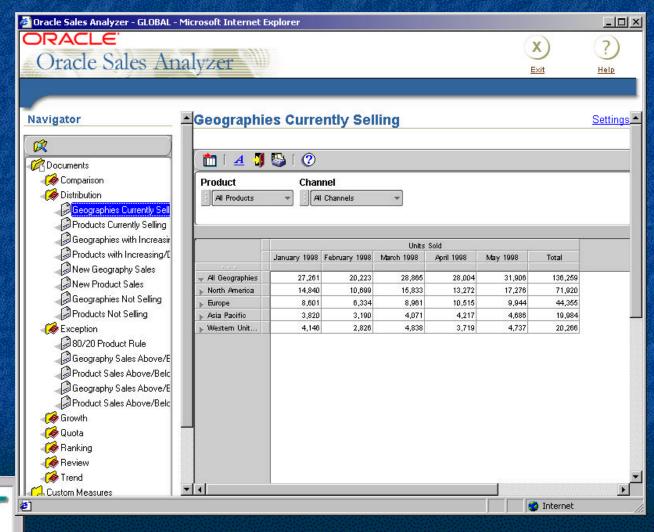
#### **Traditional Menus**

- Standard Reports
- Forecasts
- Budget
- Growth
- Ranking

- Review
- Quota
- Exceptions
- Trend
- \_ ..



#### **Traditional Menus**



### Newspaper Style Menu

- Today's Headlines
- Stories in detail
- Departmental Information



### Example Menu

#### News in Short

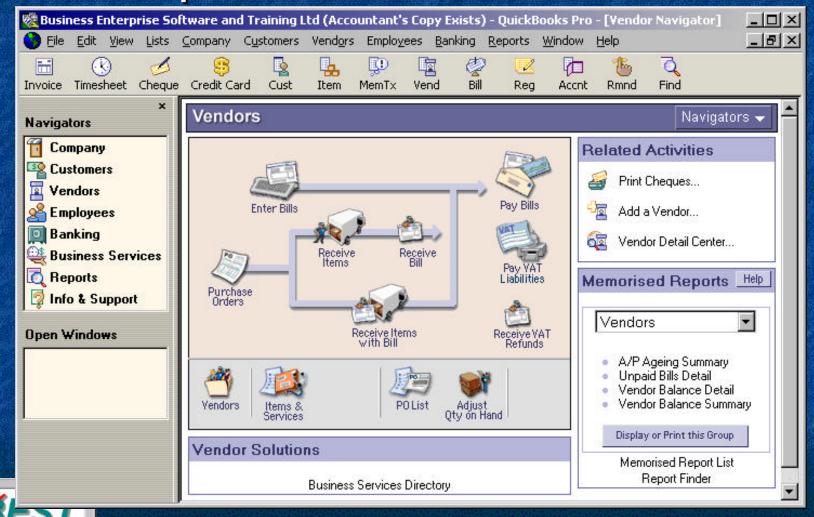
- Increase in products that have failed to perform
- Key Performance problems
- Highlights

#### Today's Top Stories

- Today's Sales Figures
- Financial Position
- Budget Process
- Key Dates
- Information



### Example Menu and Interface



## Bibliography

Date D/M/Y	Details
13/12/00	Statement of direction 9i.pdf
13/12/00	developers guide to olap API.pdf
13/12/00	concepts and admin 9i.pdf
15/12/00	9i presentation.ppt
05/06/01	OLAP Services Concepts and Administration Guide a88755.pdf
05/06/01	OLAP Services Developer's Guide to the OLAP DML a86720.pdf
05/06/01	OLAP Services Developer's Guide to the Oracle OLAP API a88756.pdf
21/06/01	March DSS DW User Group 9i.ppt

