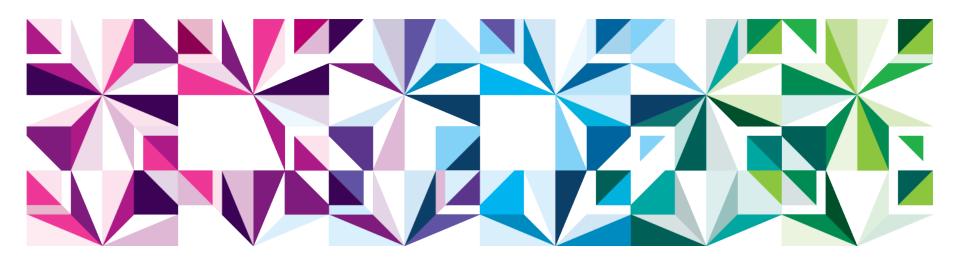


Smart computing





Do you know how fast it's possible to compute the square of a number having 5 as the last digit?

Take the last digit 5 away

Multiply this number (3) by a number that's larger by
$$ONE$$
 (4 in this case)

Write 25 to the end of the result

1225
652 => 6 | 5 => 6 * 7 | 25 =>

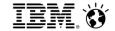
4225
752 => 7 | 5 => 7 * 8 | 25 =>

5625

1052

1052 => 10 | 5 => 10 * 11 | 25 =>

11025



Smart computing – what is it about?

New generation of computing



More RESPONSIBILITIES moved from IT to BUSINESS

IT is still needed!



Busines user





IT employee

Communication issueHas to be solved at first





Business users don't want to depend on IT



- Business users are not ready for responsibility
- •IT employees don't want to give the responsibility
 •Fear of unimportance
- •Solution:
 - Do would you are good at









- Business users
 - Would like to work with
 - Terms and Relations they understand
 - Don't want to work with IT artifacts

A56X7T8							
COL001	COL002	COL003	COLO04	COL005	COL006		
1000000) mpavlik	10000 [Martin	Pavlík	LOPATA		
1000001	fdratek	13000 F	František	Drátek	LOPATA		
1000002	2 jvomacka	15000	losef	Vomáčka	GEN_MNG		

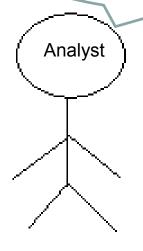
DUY745AS							
COL001	COL002	COT003	COL004	COL005			
1000000	Antonin	Pavlík	Tonda	10.3.2008			
1000000	Jan	Pavlík	Honza	10.3.2009			
1000000	Filoména	Zelená	Fíla	10.3.2003			
1000000	Petra	Pavlíková	Petrášek	10.3.2011			
1000002	Jana	Vomáčková	Janička	11.5.2008			
1000002	Adéla	Vomáčková	Karel	3.9.2011			



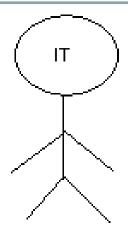


- Business users
 - Need flexibility
 - Add / Remove / Modify:
 - Parameters
 - Business rules
 - Run Ad-hoc queries / analysis

I need to evaluate the possible relationship between client salary and overdrafts



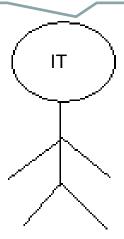
OK. We have to evaluate a lot of statistics, set the correct db indexes and db partitioning. It will take us 5 days.



Analyst

Great. Thanks a lot. I'm going to check the results.

Done. You can run your analytical query.



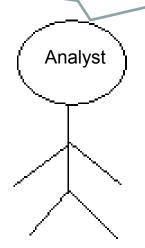
After 5 days ...

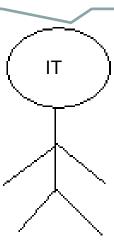


Great. I can see he correlations. Now I not from the different person

Noooo!!!
It's not possible to work here!

hhh, welcome dear friend. rstand. So, it's another 5 days of our work





... zeiunim Ot reii/A



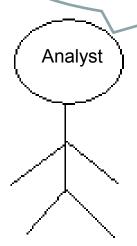
And now with a **smarter** solution

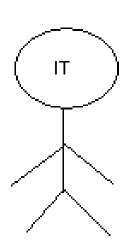
IBM PureData System for Analytics

powered by Netezza



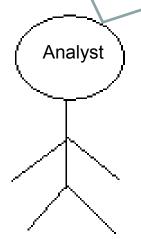
I need to evaluate the possible relationship between client salary and overdrafts.





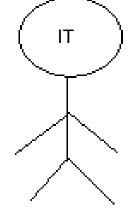
Great. I can see here some nice correlations. Now I need to look at it from the different perspective.

I can run the query immediately.



IT can do something else

– much more useful



L. zeilunim 21 neii/A

How to achieve this **smarter** behavior?

- In-memory technologies
 - unbeatable speed
 - unbeatable price

⇒ UP TO 5 TB of data



- Data temperaturing
- -- reasonable speed
- __ unpredictable for ad-hoc Constant analysis



- Massive parallelism and special HW
 - Reasonable speed
 - for every analytic query (constant / ad-hoc)





PureData System for Analytics



Transforms the User Experience

- ✓ Purpose-built analytics engine
- ✓ Integrated database, server and storage
- ✓ Standard interfaces
- ✓ Low total cost of ownership

Speed: 10-100x faster than traditional system*

Simplicity: Minimal administration and tuning

Scalability: Peta-scale user data capacity

Smart: High-performance advanced analytics

^{*} Based on IBM customers' reported results. "Traditional custom systems" refers to systems that are not professionally pre-built, pre-tested, and optimized. Individual results may vary.



The power of analytics

- What to analyse and how
 - Subject matter experts



- Where to analyse and how
 - Powerful analytic tooling



Where to run the computation





