



From Huge Table to Star Schema

Ciò che dovrete fare e che non fate (quasi) mai



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BI & Power BI Architect @ **Lucient Italia** – Gruppo **One4**

20 years burning on “Data Realm”

Giving my little contribution to the community



**Power Platform
World Tour**

WPC[®]
22
27ª EDIZIONE • MILANO

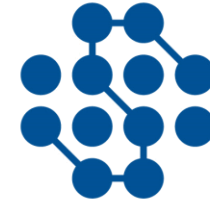
 **PowerBIUG**



Sponsor & Org



UNIVERSITÀ DEGLI STUDI DI PARMA



DATA SKILLS
UNDERSTANDING THE WORLD



Agenda

- Huge Table vs Star Schema
- Why Star Schema is always the Best?
- Divide et Impera
- Performance Tips & Tricks



Huge Table vs Star Schema

«Tre Tabelle alla Time Intelligence sotto il cielo che risplende,
Sette ai Fatti nelle lor rocche di pietra,
Nove alle Dimensioni che il lento cambiamento attende,
Una per l'Oscuro Utente chiuso nell'abitudine tetra,
Nel Tabellone Excel, dove la Performance nera scende.
Una Tabella per domarle, una Tabella per trovarle,
Un Tabella per ghermirle e nel buio incatenarle,
Nel Tabellone Excel, dove la Performance cupa scende.»

Huge Table vs Star Schema

Una sola tabella
Comfort zone
Excel Thinking



Molte tabelle, molte relazioni
Fatti e Dimensioni
Inmon & Kimball
BI Best Practices
Data Thinking



Why Star Schema is always better?



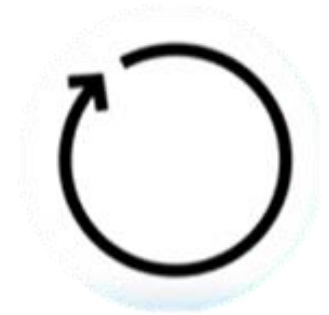
USABILITY



SIMPLER DAX

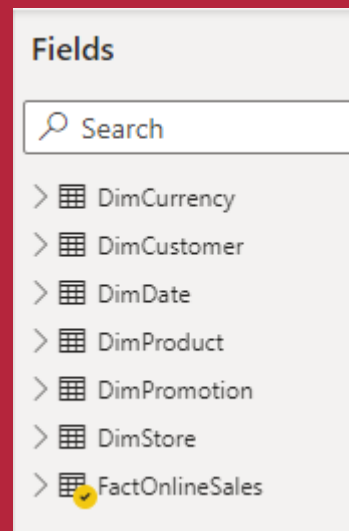
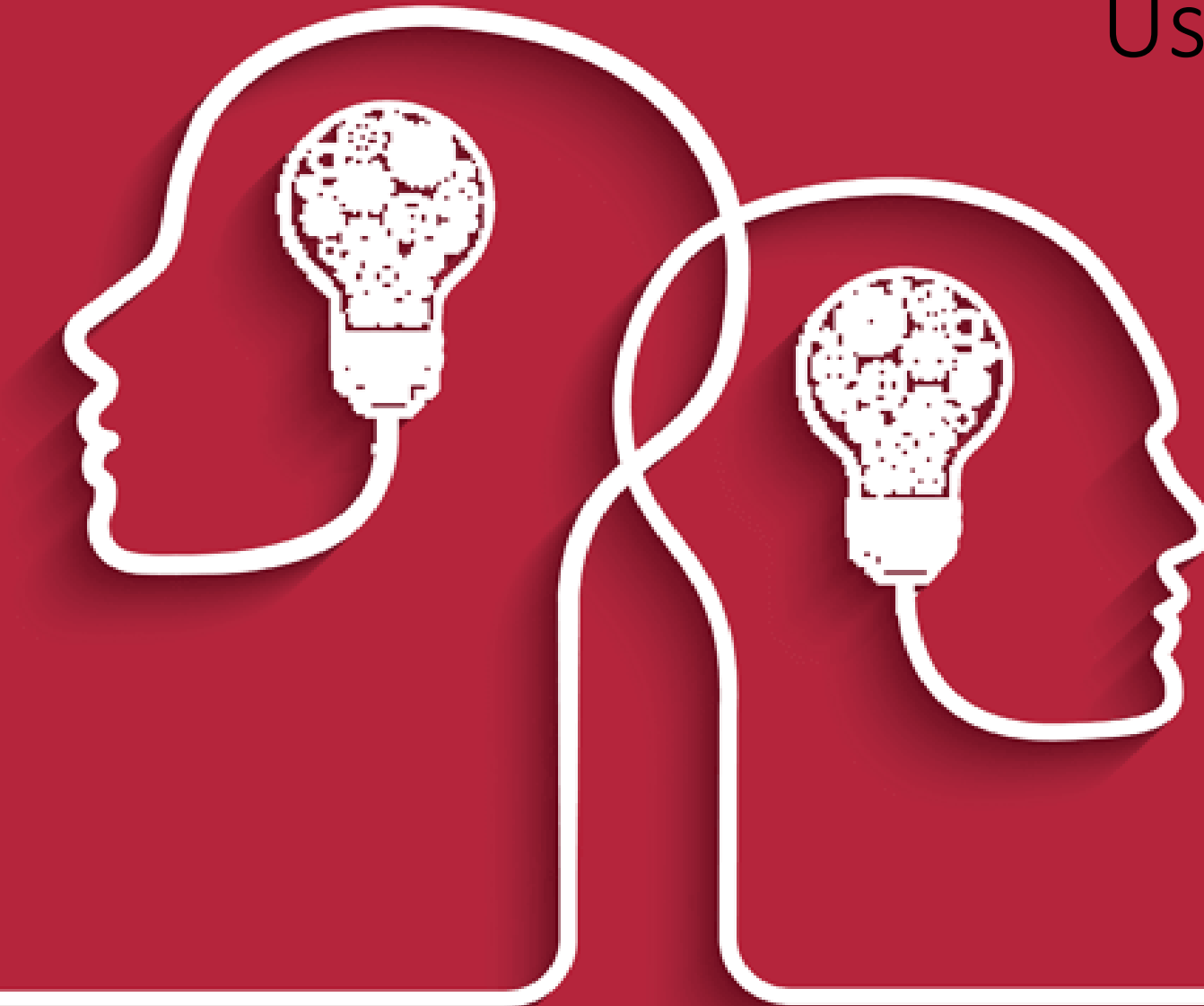
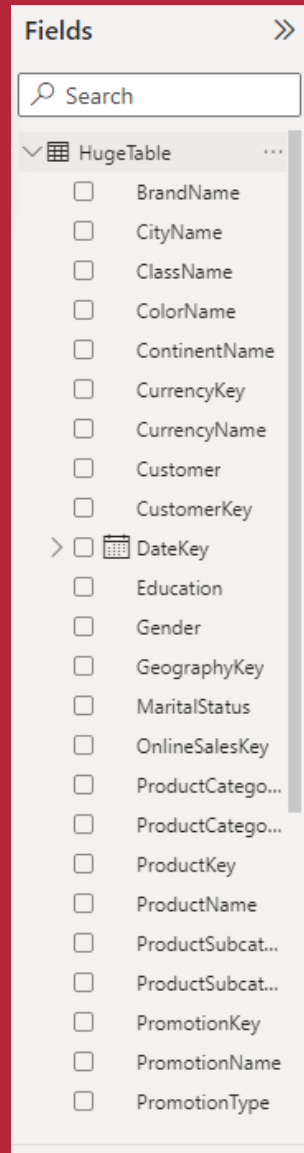


PERFORMANCE



FASTER REFRESH

Usability





Easier to write DAX

«Better the Model
Easier the DAX»

Performance



Log Results History **Server Timings**

Record

Pause

Stop

Clear

Total

39 ms

● FE

3 ms

7.7%

SE CPU

94 ms

x2.6

● SE

36 ms

92.3%

SE Queries

1

SE Cache

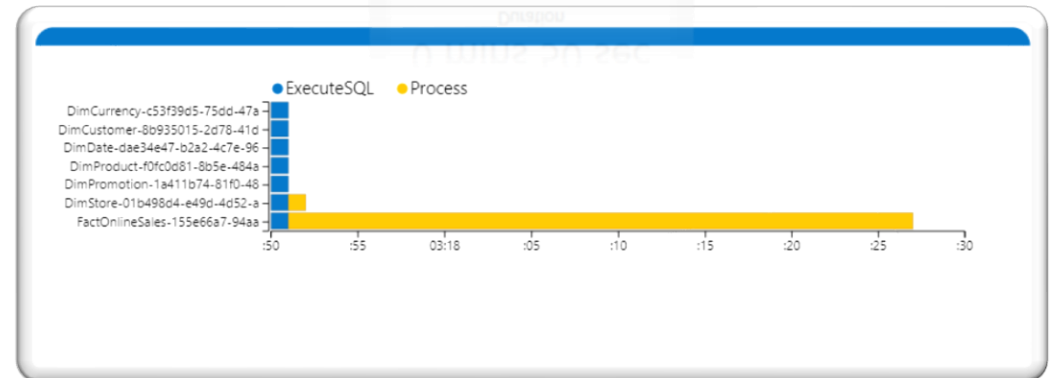
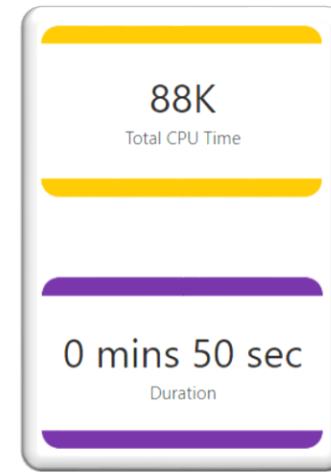
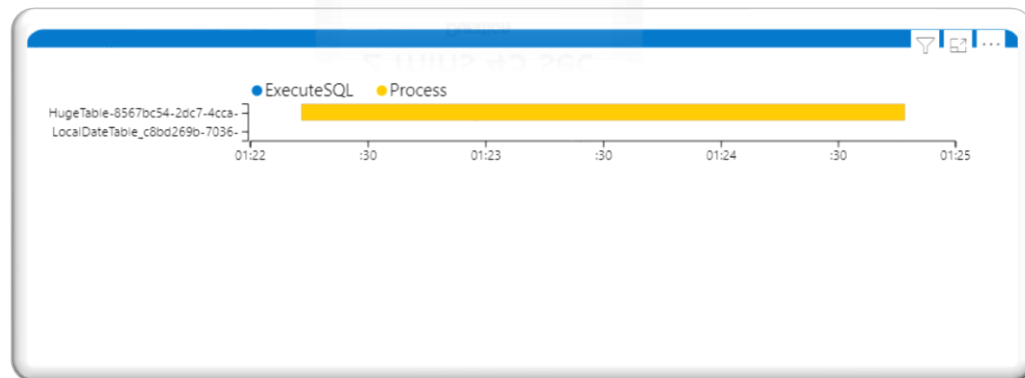
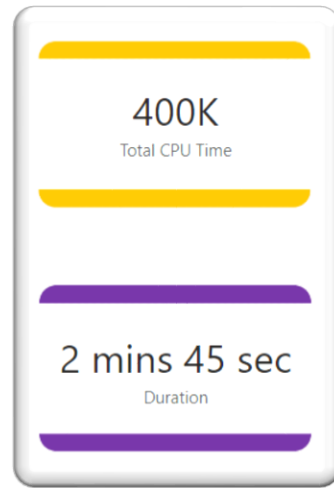
0

0.0%

Line	Subclass
2	Scan

Log Results History Server Timings			
<input checked="" type="button" value="Record"/> <input type="button" value="Pause"/> <input type="button" value="Stop"/> <input type="button" value="Clear"/>			
Total 11 ms	SE CPU 31 ms x3.4	Line	Subclass
		2	Scan
FE 2 ms 18.2%	SE 9 ms 81.8%	4	Scan
		5	Batch
<div><div></div></div>			
SE Queries 3	SE Cache 0 0.0%		

Faster refresh



Demo

Analyze your Report Refresh

Divide et Impera



Demo

Splitting the Huge Table

References

- [Microsoft Learn](#)
- [Guy in a Cube](#)
- [SQLBI](#)
- [Phil Seamark](#)
- [Ralph Kimball](#)

What else?



Thank You!





Grazie!!!

