



UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

DBGROUP

Big Data Cloud Analytics

Seminar organized as part of the
Big Data Management and Governance course

Tuesday November 27th 2018

9.00 – 11.00

Room P2.4

Via Pietro Vivarelli 10 – Modena

Seminar abstract in today's lecture, we look at selected concepts and techniques for columnar in-memory databases. In particular, we look at SanssouciDB, a research prototype that served as model the for the SAP HANA database.

In particular, we will look at the following:

- Insights and hardware trends enabling columnar in-memory databases
- Differences and consequences of a row-based versus a column-based physical database layout
- Compression techniques for columnar relational data
- Database operations (e.g., SELECT, INSERT) on columnar data
- Combining row and column styles through a differential buffer

Presenter's Bio

Lukas Faber is an Erasmus student currently visiting the University of Modena and Reggio Emilia. He studies IT Systems Engineering at the University of Potsdam/ Hasso Plattner Institute, where he has attended several courses on In-Memory databases and worked for SAP Australia as a Software Engineering Intern for six months.