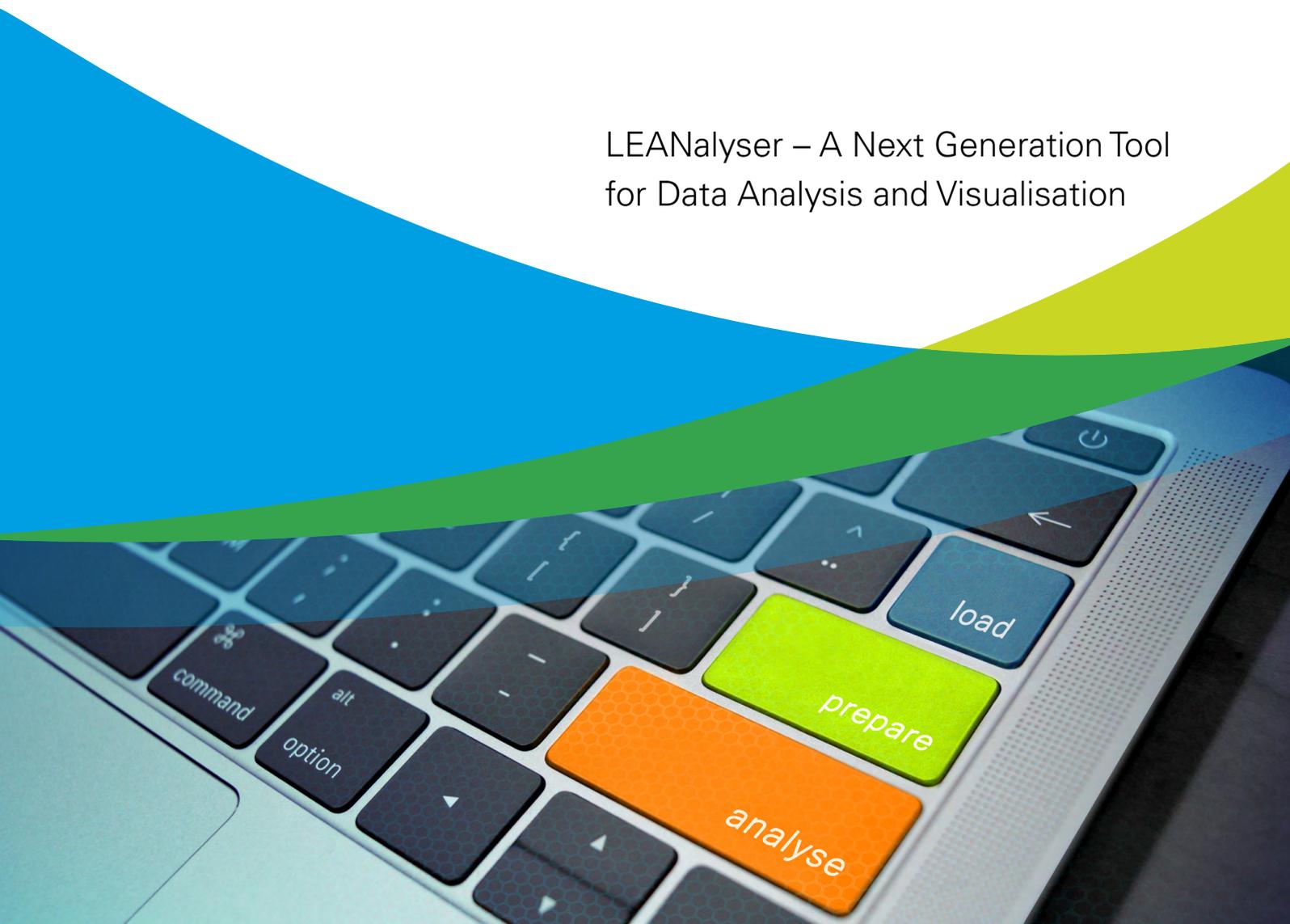


LEANalyser – A Next Generation Tool
for Data Analysis and Visualisation



Your task is to collate and analyse data that comes from a number of different sources. Should you stay with Excel, or dare you try the advanced tools that some of your colleagues use?

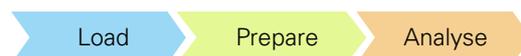
You know Excel isn't the best tool for the job. It's awkward to combine and clean the data from different sources with Excel. But you're familiar with how it works.

If you choose an advanced analysis tool you will have to spend time learning how to use it, and even then you will probably need to ask analysts and experienced BI developers for help.

It doesn't take long to realise that the time allotted to your task isn't going to be enough.

We can offer you a solution...

LEANalyser is a third generation analysis tool that supports you through the entire process from loading and preparing data to analysis and visualisation.



The tool is ideal for anyone who needs to analyse structured data and to handle very large data collections efficiently.

“Third generation” means that the tool allows you to jump back and forth between the different phases of the analysis process, visually and in real time, without having to reload the data. This is in line with the highly iterative nature of the analysis process.

A third generation tool for Self Service Analytics should:

- Support the entire analysis process with a single tool
- Be easy to use thanks to an intuitive user interface
- Perform well even with very large data sets
- Make no demands on programming abilities or use of complicated syntax
- Offer appropriate functions designed for Self Service Analytics

The main advantages of using a third generation tool include:

- You don't need to learn how to use separate data preparation tools
- You can work much more efficiently since you are using only one tool
- You can always move back to the preparation to clean, modify or fine-tune data during the analysis

Development and characteristics of analysis tools:

First generation:

Developed for performing static analysis tasks for BI users with little analysis experience. Such tasks are developed by BI professionals. Data is fetched from data stores with pre-calculated values.

Second generation:

Permit a range of elegant visualisations for creating insightful analyses. It is easy to perform simple analyses, but all too often advanced syntax must be learned in order to go all the way to the desired result. Acceptable performance is usually not obtained with all transactions in the internal database. This means that data almost always requires preparation and optimisation by BI developers.

Third generation:

Support data preparation in real time in addition to analysis and visualisation. After a brief introduction, relatively inexperienced analysts can create an analysis database and quickly perform analysis on their own. Visual data preparation functions allow the user to prepare the data intuitively in one window while the same data is visualised in another.

LEANalyser

Our contribution for part-time analysts is LEANalyser, one of the very first third generation analysis and visualisation tools that makes analysis work much more independent and efficient for all kinds of users.

Characteristics of LEANalyser:

- Desktop-based - no requirement for server or cloud connection
- Very easy and quick installation
- Flexible and updatable database
- OLAP-like database functionality with no structural limitations
- Data profiling functions to rapidly get to know the data
- Visual data preparation with spreadsheet-based GUI
- Uncluttered and context-oriented interface - point and right-click!
- Fast response times without any need for performance optimisation
- Simple syntax
- Suitable for both end-users and BI developers

Performance

Objective and careful performance tests have been run by an independent company. The results show that LEANalyser outstrips all established data discovery tools. LEANalyser's performance is in a class of its own.

LEANalyser handles many types of data

What you can do – some examples:

- As a financial officer you can easily combine different groups of accounts to generate ledgers and balance sheets in detail or as an overview
- As a sales manager you can join data from your CRM system and accounting to ensure correct delivery processes
- As an engineer you can import large amounts of measurement data from for example IoT-systems, compare result series and create advanced time analyses
- As a controller you can quickly and easily create ad hoc analyses when your standard tools are not up to the job
- As a Data Scientist you can collate and clean diverse data samples quickly and efficiently, then export the final data set to a data mining tool or train algorithms with it
- As a BI-system developer you can create prototype analyses and verify data quality very quickly and easily
- As a marketer you can quickly and smoothly clean and collate customer data for analysis or export to your CRM system
- As a QA manager you can easily identify where and when problems arise in manufacturing processes
- As a purchasing officer you can easily monitor deliveries from your suppliers for price and quality
- As a researcher or journalist you can quickly and easily combine publicly available statistics and create your own analyses to describe hidden correlations

LEANalyser – technical facts:

- All data is stored in RAM
- All data is handled at transactional level
- Can handle a billion records in 32 Gbyte RAM
- Native clients for Windows and Mac
- Single executable file (<5 Mbyte)
- Strong encryption

DETAILED INFORMATION

Data management

To be classified as a third generation analysis tool, it is required that the loading and preparation of data can be carried out in the same tool as the analysis itself. That's exactly what LEANalyser does!

LEANalyser handles:

- Import of various file formats and data from a web page (e.g Excel files)
- Automatic loading of new transactions from file or web page
- Cleaning of duplicates
- Automatic field type recognition
- Support for master data via dimensions
- Correction of invalid relations between tables
- Creation of calculated fields
- Database encryption

Analytical functions

It is easy to think that a tool developed for part-time analysts must have limited analytical functions. But this is NOT the case with LEANalyser. On the contrary, LEANalyser offers:

- Hierarchical dimensions
- Set-calculations
- Complex data filters
- Built-in calendar and time functions
- Drill-down to data at transactional level both vertically and horizontally via different analysis types
- Visual data zooming to find the needle in the haystack

Analysis database

What makes it possible to prepare and analyse data efficiently and intuitively at the same time is the built-in relational analysis database in LEANalyser. The database supports real-time updates, a unique feature among analysis databases.

To achieve high performance with very large data sets, the database is directly linked to the analysis engine and to the user interface. As a result, data doesn't have to be moved between different memory areas, disks and processes. In addition, multi-core processing and parallelisation techniques are used.

The column-oriented database stores all data in RAM memory and uses compression techniques, which makes it extremely flexible and fast.

More information

Visit us on the web at leanalyser.com or send us an e-mail on info@leanalyser.com.