

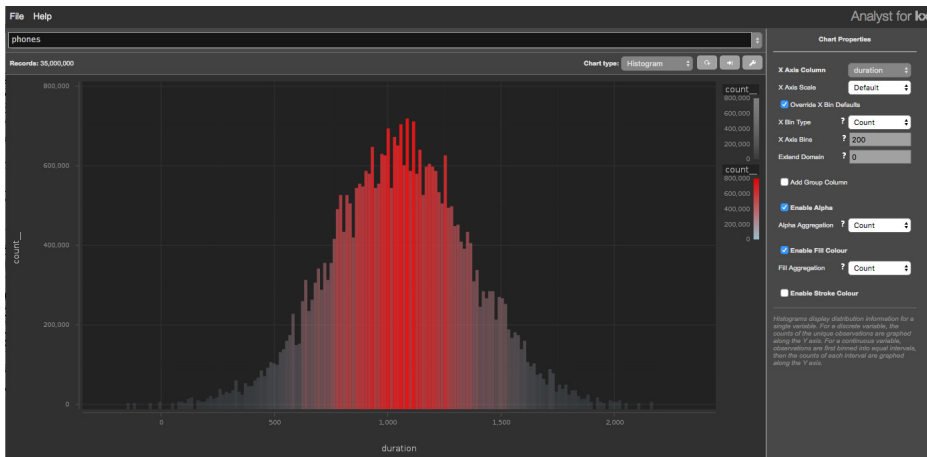


it's about time

Analyst for Kx

An Interactive Data Exploration and Development Environment For Big, Fast Data

Analyst for Kx provides a full-featured, interactive analytic/development environment for loading, transforming, exploring and visualizing massive datasets in real-time. Analysts can load, query and visualize billions of records as if they are working with a few thousand moving seamlessly back and forth between compute-intensive queries or calculations and interactive visualizations. Developers can quickly and easily create data analytic libraries by leveraging a rich set of development tools.



Visual Inspector

HTML5 Browser-Based Tools Designed For Big Data - Users connect to Analyst using a standard HTML5-compliant web browser. A variety of tools are provided for both the data scientist/analyst and the programmer. These tools have been specifically designed for Big Data in terms of speed and scalability.

Adhoc Data Visualization In Seconds - The Visual Inspector allows you to perform adhoc queries and visualization in real-time. A variety of visualizations are supported such as paged tables, plot matrix, heatmap, histograms, line, bar, scatter, geo mapping, and directed graphs. Data binning, brushing and drill down are supported. In addition, custom visuals can be created and added to the inspector using the grammar of graphics scripting language.

Self-Serve ETL & Query Without Programming - Designed specifically for massive datasets, users can load dataset samples and build transformations without programming using a wide variety of actions. Extract, translate and load (ETL) actions include type changes, date and time transformations, string parsing, column or list splitting, data filling, null replacement, complex AND/OR query filtering, string replacement, case changing, adding, removing or sorting columns, grouping by column. All actions can be re-ordered, deleted, modified or replayed. Join operations include inner, left, equi, plus, union, upsert, insert and zip. Once the user is happy with the transform, it can be executed against any sized dataset. Transforms can be saved and executed over and over again as functions using tables with the same shape.

At A Glance



Analyst for Kx is a rich data exploration/development environment that allows novices and experts to interactively work with big, fast data in real-time with or without programming.

Kx Advantages

- Analyst features an HTML5 user interface designed for interactive big data analysis
- Import or export CSV, JSON, ODBC/JDBC, XML, INI, and kdb+ file formats using convenience wizards
- Load, join and query datasets without programming using a point-and-click transformation and query tool
- Perform adhoc queries using an intuitive point-and-click interface with programming
- High-performance, real-time visualization of massive data sets in seconds using a wide range of pre-built visuals
- Build custom interactive visualizations using the grammar of graphics scripting language
- Shared repository makes collaborating on analysis projects fast and easy
- Comprehensive scripting language and tools lets developers create any kind of data analysis
- Open interfaces to a wide variety of programming languages (Java, C, C++, C#, R, Python, Perl, Scala, Excel, Fortran, ODBC/JDBC)

Description	Value
"Basic table"	35,000,000 items
"Basic selection example"	Name: 20,000,000
"First five source values"	source dest date duration lower: E5091 stat
"Select a source"	149 23 2008-06-01 00:00:00 000 1434 1 -79.21370 43.30993
	279 204 2008-06-01 00:00:00 000 460 24 -79.40008 43.70260
	157 23 2008-06-01 00:00:00 000 1180 29 -79.39163 43.46357
	24 23 2008-06-01 00:00:00 000 378 23 -79.29122 43.70952
	24 23 2008-06-01 00:00:00 000 887 29 -79.30178 43.65337
	242 13 2008-06-01 00:00:00 000 1015 19 -77.49628 42.89921
	85 1 2008-06-01 00:00:00 000 1015 29 -79.29122 43.70952
	289 71 2008-06-01 00:00:00 000 1310 28 -79.38759 42.62039
	85 1 2008-06-01 00:00:00 000 1015 29 -79.29122 43.70952
	371 95 2008-06-01 00:00:00 000 1036 27 -79.32298 42.44817

Big Data Spreadsheet

Big Data Spreadsheet Exploration - Analysts can perform ad-hoc, non-linear analysis using an optimized SQL query language or a vector functional scripting data language. Users can also script custom interfaces inside the spreadsheet using JavaScript functions.

Point-And-Click Query Filtering - The transformer can also be used to filter datasets using a point-and-click interface. Users can create simple or complex queries using AND/OR filter creation.

Powerful Programming Tools For Developers - Analyst provides a complete interactive development environment (i.e. shared repository, version control, interactive editor, scratchpad, console, debugger, differ and merge tools) to assist users with building custom analytics. Standard features include code search, fuzzy search, code completion, context-sensitive help, documentation, automated testing, and quick check are standard.

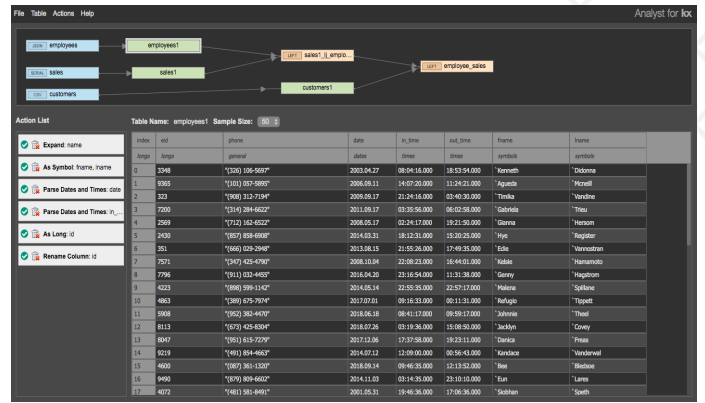
Shared Repository & Version Control - Both developers and analysts benefit from Analyst's shared repository and fine-grained version control. For analysts, the shared repository provides a collaborative work experience complete with analysis history and audit trail. For developers, the shared repository provides fine-grained version control down to the function or spreadsheet cell level.

Proven kdb+ Technology Under the Hood - For over 30 years, kdb+ database technology has been used to power the

About Kx

Kx has been the software leader for complex analytics on massive-scale streaming data for over two decades. The Kx technology is an established and trusted standard for trading, surveillance and research in financial services. Kx has emerged as the elegant, integrated solution to the analytic needs of the Pharma, Retail, Utilities and High Tech Manufacturing industries scaling effortlessly to the data challenges of the Internet of Things.

Kx is a division of First Derivatives plc. Listed on the London Stock Exchange [FDP:LIN] First Derivatives is a specialist software and consulting organization with a uninterrupted track record of customer success and profitable growth since it was listed in 2002.



Point & Click Transformation (ETL)

finance industry offering unparalleled performance against both in-memory or on-disk databases. For example, in recent tests, a billion record log file query was reduced to 60 million records in just 86ms. Tables can be stored in a variety of formats for fast on-disk query - serialized, splayed, partitioned/sharded, segmented.

Open and Extensible Environment - Analyst doesn't lock you in. Users can import or export datasets in CSV (or any delimited format), JSON, XML, INI, and ODBC/JDBC as well as all of the kdb+ formats. In addition, the environment can be interfaced with a wide range of external libraries, languages and applications (Java, C, C++, C#, R, Python, Perl, MatLab, Scala, Excel, Fortran, ODBC/JDBC).

Filter dialog box showing query filtering rules:

- Where: c_cut = Ideal
- And: depth > 60
- Or: price > 343
- Where: c_cut = Premium
- And: depth > 60.0

Point & Click Query Filtering

Kx in Action

Visualize and Explore Data

- Dashboards for Kx
- Analyst for Kx

Industry Solutions

- Finance
- Surveillance
- Algo
- Flow
- Pharma
- Utilities & IoT

Control, Deploy & Monitor

- Control for Kx
- Stream for Kx
- Kx for Monitoring

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