

[SIGMOD Demos 2016](#)**SIGMOD Demonstration Track 2016**

June 26th - July 1st, 2016, San Francisco, USA

Reviews For Paper**Paper ID** 75**Title** Timeseries Analysis using AQuery to Make Your Fortune**Masked Reviewer ID:** Assigned_Reviewer_2**Review:**

Question	
Overall Rating	Reject
Detailed Comments	Authors propose to demonstrate a statistical arbitrage/pairs trading application implemented over the AQuery system, which integrates order as a first class citizen in its design and extends SQL-92 with an ASSUMING clause that provides ordering. Several built-in functions (such as ratios, moving) provide aggregation operations over the ordered data (such as time series). Authors present several results which show that AQuery system is more efficient than several other libraries and data management systems, with similar functionalities.
List at least three strengths of this paper.	+ Time series is an important data type and efficiently analyzing time series data sets is a critical challenge. + While the proposed system is generic, the specific application the authors propose to use is interesting.
List at least three weaknesses of this paper.	+ The proposal has one major problem: the AQuery technology is rather old - - the core technology and optimizations were presented in VLDB 2003. The current proposal appears to be a simple application build over that core. As such, it is not clear what new insights the audience will get out of the proposed demo.
Does the paper clearly articulate the proposed demo experience?	Yes

Masked Reviewer ID: Assigned_Reviewer_3**Review:**

Question	
Overall Rating	Strong Accept
Detailed Comments	The authors propose to demonstrate AQuery that allows users to express complicated timeseries queries in more intuitive ways, using a financial dataset. In addition to exposing AQuery, a visualization interface is built to help users understand the behavior.
List at least three strengths of this paper.	S1. Good motivating application S2. Already built system, with good performance

	S3. Good and intuitive visualization interface
List at least three weaknesses of this paper.	<p>W1. Most of the plots in the demo description were difficult to read on a b/w printout. Especially Figures 3 and 7.</p> <p>W2. It would be interesting to show some exploration aspect, i.e., cases where there is different behavior of the proposed queries (different cross-over points), given different parameters for the different windows, and the system easily allows the user to find them.</p> <p>W3. It would be great to see if one can use this demonstration to detect outliers from a group of stocks that behave similarly (e.g., similar crossover points except for one stock).</p>
Does the paper clearly articulate the proposed demo experience?	Yes