

## ***2011-03-14 - The LinkedIn Bitemporal Data Group***

### **Introducing myself and the topic of bitemporal data**

For a quarter-century as a data modeler and data architect, I designed and developed history tables and version tables to support the temporal data requirements of my clients. For the last several years, I immersed myself in the extensive work done by computer scientists on bitemporal data. Then, last year, I co-authored a book on bitemporal data which combines the best of that work with my own background in real-world IT databases. That book is:

Managing Time in Relational Databases: How to Design, Update and Query Temporal Data.

(Morgan-Kaufmann, 2010). ISBN 978-0-12-375041-9

You can order this book from Morgan Kaufmann Publishers at [www.mkp](http://www.mkp), or at Amazon and other booksellers.

In this forum, I will introduce various topics for discussion, and I invite you to do the same.

One topic is how bitemporal data is an extension of IT best practices using versioning. A brief article on this topic can be found at Enterprise Systems Journal ([esj.com](http://esj.com)) by searching on "Johnston".

I will present a more extensive discussion of this topic at the Enterprise Data World 2011 Conference in Chicago (April 3 - 7). My presentation is on Wednesday April 6th, at 8:30.

Other topics I will introduce here include:

What is bitemporal data and why is it important?

What are IBM, Oracle and Teradata doing to support bitemporal data?

What is temporal entity integrity, and how does it work?

What is temporal referential integrity, and how does it work?

How can bitemporal data be used with dimensional data?

How can bitemporal data be used in historical data warehouses?

How does bitemporal data differ from Data Vault and Anchor Modeling?

What does a bitemporal enterprise data architecture look like?

How does bitemporal data provide an enterprise solution to managing time?

What is involved in migrating from non-temporal to bitemporal data?

What is involved in migrating from versioning to bitemporal data?

What does the draft Temporal SQL standard look like?

Welcome to this group!

Tom Johnston