

The Data Warehouse Toolkit: The Definitive Guide To Dimensional Modeling

Dimensional modeling

ISBN 0-471-20024-7. Kimball, Ralph; Ross, Margy (2013). The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling (PDF) (3rd ed.). Wiley. p. 43. ISBN 9781118530801

Dimensional modeling is part of the Business Dimensional Lifecycle methodology developed by Ralph Kimball which includes a set of methods, techniques and concepts for use in data warehouse design. The approach focuses on identifying the key business processes within a business and modelling and implementing these first before adding additional business processes, as a bottom-up approach. An alternative approach from Inmon advocates a top down design of the model of all the enterprise data using tools such as entity-relationship modeling (ER).

Ralph Kimball

system Kimball, Ralph; Margy Ross (2013). The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling (3rd ed.). Wiley. ISBN 978-1-118-53080-1

Ralph Kimball (born July 18, 1944) is an author on the subject of data warehousing and business intelligence. He is one of the original architects of data warehousing and is known for long-term convictions that data warehouses must be designed to be understandable and fast. His bottom-up methodology, also known as dimensional modeling or the Kimball methodology, is one of the two main data warehousing methodologies alongside Bill Inmon.

He is the principal author of the best-selling books The Data Warehouse Toolkit (1996), The Data Warehouse Lifecycle Toolkit (1998), The Data Warehouse ETL Toolkit (2004) and The Kimball Group Reader (2015), published by Wiley and Sons.

Star schema

2025-08-15. Kimball, Ralph; Ross, Margy (2013). The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling (PDF) (3rd ed.). Wiley. ISBN 9781118530801

In computing, the star schema or star model is the simplest style of data mart schema and is the approach most widely used to develop data warehouses and dimensional data marts. The star schema consists of one or more fact tables referencing any number of dimension tables. The star schema is an important special case of the snowflake schema, and is more effective for handling simpler queries.

The star schema gets its name from the physical model's resemblance to a star shape with a fact table at its center and the dimension tables surrounding it representing the star's points.

Slowly changing dimension

process management Data element Kimball, Ralph; Ross, Margy. The Data Warehouse Toolkit: The Complete Guide to Dimensional Modeling. "Design Tip #152 Slowly

In data management and data warehousing, a slowly changing dimension (SCD) is a dimension that stores data which, while generally stable, may change over time, often in an unpredictable manner. This contrasts with a rapidly changing dimension, such as transactional parameters like customer ID, product ID, quantity, and price, which undergo frequent updates. Common examples of SCDs include geographical locations, customer details, or product attributes.

Various methodologies address the complexities of SCD management. The Kimball Toolkit has popularized a categorization of techniques for handling SCD attributes as Types 1 through 6. These range from simple overwrites (Type 1), to creating new rows for each change (Type 2), adding new attributes (Type 3), maintaining separate history tables...

Data engineering

Margy (2013). The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling (3rd ed.). Wiley. ISBN 9781118530801. Unified Modeling Language (UML)

Data engineering is a software engineering approach to the building of data systems, to enable the collection and usage of data. This data is usually used to enable subsequent analysis and data science, which often involves machine learning. Making the data usable usually involves substantial compute and storage, as well as data processing.

Functional database model

ISBN 978-0-201-96426-4 Ralph Kimball and Margy Ross, The Data Warehouse Toolkit: The Complete Guide to Dimensional Modeling (Second Edition), p. 393 Karsten Oehler

The functional database model is used to support analytics applications such as financial planning and performance management. The functional database model, or the functional model for short, is different from but complementary to the relational model. The functional model is also distinct from other similarly named concepts, including the DAPLEX functional database model and functional language databases.

The functional model is part of the online analytical processing (OLAP) category since it comprises multidimensional hierarchical consolidation. But it goes beyond OLAP by requiring a spreadsheet-like cell orientation, where cells can be input or calculated as functions of other cells. Also as in spreadsheets, it supports interactive calculations where the values of all dependent cells are...

Taligent

strategic IBM asset" xent.com. "Welcome to the VisualAge WebRunner Toolkit!" Taligent. Archived from the original on December 11, 1997. Retrieved January

Taligent Inc. (a portmanteau of "talent" and "intelligent") was an American software company. Based on the Pink object-oriented operating system conceived by Apple in 1988, Taligent Inc. was incorporated as an Apple/IBM partnership in 1992, and was dissolved into IBM in 1998.

In 1988, after launching System 6 and MultiFinder, Apple initiated the exploratory project named Pink to design the next generation of the classic Mac OS. Though diverging from Macintosh into a sprawling new dream system, Pink was wildly successful within Apple. Though having no releases until 1995, it was a subject of industry hype for years. In 1992, the new AIM alliance spawned an Apple/IBM partnership corporation named Taligent Inc., with the purpose of bringing Pink to market. In 1994, Hewlett-Packard joined the partnership...

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author of The Writer's Toolkit. [743]. John Lion

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Example:

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