

Mastering Data Warehouse Design Relational And Dimensional Techniques

Periodic Snapshot Facts
What is Data Warehousing
Seven W's of Data Warehouse Design and the User Story
What is Dimensional Modeling?
Accumulating Snapshot Facts
Medallion Architecture
Database Design \u0026 Data Modeling Full Course For Beginners [2026] - Database Design \u0026 Data Modeling Full Course For Beginners [2026] 3 hours, 40 minutes - Data Modeling | Database **Design**, | **Data Warehouse**, | Data Engineering What you will learn? This is a complete Database **Design**, ...
Other Dimensions
The Bus Matrix
SCD's Type 0,1,2,3,4
Junk Dimensions
Dimensional Modeling The Heart of the Data Warehouse
Identify Dimensions
Wrap Up
Why Surrogate Keys?
Dimensional Modeling - Fact Tables
Dimensional Modeling - Dimensional Modeling 53 minutes - A tutorial on the concepts and practice of **Dimensional**, Modeling, the Kimball **Method**,.
Join to Create Marts
Introduction: This Presentation
What is Data Warehouse?
Intro - Modules
Apache Iceberg
4.1: Creating Degenerate Dimensions
6.1: Differentiating between Additive, Semi-additive, and Non-additive Measures
Slowly Changing Dimensions Type-1 and Type-2
Why a Data Warehouse?
Relationships \u0026 Cardinality
Dimension Tables
Star vs Snowflake Schema
Apache HUDI
Databases vs Data Warehouse
What's a Fact?
STAR Schema VS SNOWFLAKE Schema
Data Modeling Masterclass For Data Engineers [2025] - Data Modeling Masterclass For Data Engineers [2025] 3 hours, 25 minutes - ... will **master**, key **Dimensional**, Data Modeling concepts like ETL pipelines, incremental data loading, **data warehousing**,, Star vs.
The Three Stages of Data Modeling: Conceptual, Logical, Physical
Data Warehouse - The Ultimate Guide [2025] | Master Data Modeling - Data Warehouse - The Ultimate Guide [2025] | Master Data Modeling 3 hours, 16 minutes - Data warehouse, | Data Modeling | Databricks | PySpark | SparkSQL In this video, I walk you through key **Data Warehouse**, ...
Full Load, Incremental Load \u0026 Idempotency
Identify the Facts
Bryan Cafferky
3.1: Introduction to the Star Schema Structure
Understanding Dimensional Modeling | A Comprehensive Guide to Data Warehousing - Understanding Dimensional Modeling | A Comprehensive Guide to Data Warehousing 8 minutes, 42 seconds - In this video, we break down the core concepts of **Dimensional**, Modeling - an essential component of **Data Warehousing**, ...
Conceptual Layer OLTP
Slowly Changing Dimension-Type 3
Mastering Dimensional Modeling for Efficient Data Warehousing - Mastering Dimensional Modeling for Efficient Data Warehousing 43 minutes - Study Various **Dimensional**, Modeling **Techniques**, Used In Building Efficient **Data Warehouse**, Schemas Section 1: Introduction to ...
Slowly Changing Dimensions
Change Data Capture (CDC)
Shrunk Dimensions
Build Dimensions and Fact Tables
Transactional Facts
OLAP Modeling
Normalization
The \"Big Three\" Table Formats
Dimensional Data Model Basics
1NF vs 2NF vs 3NF vs BCNF
The Seven W's of Data Warehouse Design - User Story
Incremental Loading
6.2: Choosing the Right Granularity for Fact Tables
5.1: Advantages and Disadvantages of the Snowflake Schema
OLTP vs OLAP Databases
Keyboard shortcuts
Kimball DW Architecture
Referential Integrity \u0026 Constraints
Dimensional Data Modelling
What is Dimensional Data Modeling
Conformed Dimensions / Bus Architecture
One Big Table
Data Vault
Storage Formats - Avro \u0026 Parquet
Dimension Types
5.2: Implementing Hierarchies in Dimension Tables
When is it Not Appropriate?
Whats Next
What is Data Modeling and Why It Matters
7.2: Strategies for Maintaining Data Integrity in a Warehouse
ETL/ELT
CDC Patterns \u0026 Methods
Intro
Inmon DW Architecture
1.1: Overview of Dimensional Modeling Concepts
Data Modeling Masterclass | Build Uber's Data Model from Scratch - Data Modeling Masterclass | Build Uber's Data Model from Scratch 2 hours, 24 minutes - Learn **Data**, Engineering and Crack Interview - <https://datavidhya.com> Practice here ...
Thank You
2.1: Identifying Key Business Metrics and Dimensions
Slowly Changing Dimensions (SCDs)
Benefits \u0026 Future Topics
Rapidly Changing Dimensions
Kimball Data Warehouse
Physical Layer OLTP with AI
ACID
Snowflake Schema
Analyis and Queries on Data Model
Intro
Dimensional Modeling - Stars
Practice Areas
Goals of a Data Warehouse
Implementing SCD Type 1 in Databricks with Spark SQL
Star Schema
Data Lakes
DW Tips: 10 Essential Dim Mod Rules
Silver Layer MERGE or UPSERT
Fact Tables
High-level Overview
OLAP vs OLTP
Other types of Dimensions
Data Modeling Tutorial: Star Schema (aka Kimball Approach) - Data Modeling Tutorial: Star Schema (aka Kimball Approach) 16 minutes - Get all of my free resources to help you learn: <https://skool.com/moderndata/about> - Work with me to modernize your **data**, ...
Date Dimensions
Understanding Fact Tables and Dimension Tables
Databricks Overview
7.1: Ensuring Data Accuracy through Dimensional Modeling
Intro
Lakehouse vs. Data Lake vs. Data Warehouse
Learn Data Modeling in 8 minutes: Dimensional Data Modeling, Data Vault, and One Big Table - Learn Data Modeling in 8 minutes: Dimensional Data Modeling, Data Vault, and One Big Table 8 minutes, 6 seconds - Join the free beginner boot camp here: <https://learn.dataexpert.io> Join the AI boot camp that starts October 20th for 30% off with ...
Degenerate Dimensions
Partnerships
Conclusion
ETL Layers
Problem with Traditional Systems
Intro to Fact Tables
Star Schema vs Enterprise Data Warehouse
Some Additional

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Thoughts... f698c6dc77 Data Modeling - Walking Through How To Data Model As A Data Engineer - Dimensional Modeling 101 - Data Modeling - Walking Through How To Data Model As A Data Engineer - Dimensional Modeling 101 20 minutes - Data, modeling is key skill **data**, engineers need to know. In particular **dimensional**, modeling. Whether you eventually decide to go ... f698c6dc77 Subtitles and closed captions f698c6dc77 ETL Layers f698c6dc77 Comparison of Fact Table Types f698c6dc77 Retail Sales f698c6dc77 What makes it Enterprise? f698c6dc77 Why Build a Data Warehouse f698c6dc77 What is Data Modeling f698c6dc77 Data Warehousing f698c6dc77 Primary Key, Candidate Key, Alternate Key, Super Key, Foreign Key f698c6dc77 What is a Data Warehouse? f698c6dc77 Identify the Business Process f698c6dc77 Slowly Changing Dimensions f698c6dc77 Incremental Data Loading using Spark SQL f698c6dc77 Introduction to Dimensional Modeling f698c6dc77 E-R Diagram f698c6dc77 Database VS Data Warehouse f698c6dc77 Incremental Data Loading (Bronze Layer) f698c6dc77 Databricks Free Edition f698c6dc77 Fact Table and Dimension Tables f698c6dc77 Date Dimension (my favorite dimension) f698c6dc77 Dimensional Modeling Embellishments f698c6dc77 Data Lakehouse f698c6dc77 General f698c6dc77 Facts \u0026 Dimension Tables f698c6dc77 Data Warehouse Design for BI \u0026 Analytics | Microsoft on edX | Course About Video - Data Warehouse Design for BI \u0026 Analytics | Microsoft on edX | Course About Video 52 seconds - Learn how to **design**,, build, load, and operate a **relational data warehouse**, to support business intelligence (BI) and advanced ... f698c6dc77 Star Schema - Physical Model f698c6dc77 Intro f698c6dc77 ETL Fundamentals and Architecture f698c6dc77 Create Dimension Tables f698c6dc77 Role Playing Dimensions f698c6dc77 Hospital Dimensional Data Model (Problem Statement) f698c6dc77 DATA MART f698c6dc77 Conformed Dimensions f698c6dc77 Gran New Layers f698c6dc77 1.2: Importance and Benefits of Dimensional Modeling f698c6dc77 Layers Of Data Modeling f698c6dc77 Data Vault f698c6dc77 Is the Kimball Data Warehouse Still Relevant in 2023? - Is the Kimball Data Warehouse Still Relevant in 2023? 4 minutes, 42 seconds - RELATED VIDEOS□ Data Vault: <https://youtu.be/D914nNWGP6E> Do you wonder if the Kimball **Data Warehouse**, is still relevant in ... f698c6dc77 Facts f698c6dc77 Intro f698c6dc77 What's Ahead? f698c6dc77 Recap \u0026 Why Dimensional Modeling is a Game-Changer f698c6dc77 Master Dimensional Modeling Lesson 01 - Why Use a Dimensional Model? - Master Dimensional Modeling Lesson 01 - Why Use a Dimensional Model? 9 minutes, 57 seconds - Dimensional, Modeling is a popular and effective way to organize your **data**, to maximize business value. In this video, you will ... f698c6dc77 DW Tips: Dimensional Modeling Myths f698c6dc77 Mini-dimensions f698c6dc77 What is Data Modeling? f698c6dc77 Slowly Changing Dimensions f698c6dc77 Steps of Dimensional Modeling Review f698c6dc77 Star Schema f698c6dc77 Identify the Grain f698c6dc77 What a Data Warehouse is NOT f698c6dc77 Delta Lake f698c6dc77 Snowflaking f698c6dc77 Introduction f698c6dc77 Introduction: The New Series f698c6dc77 Let's Compare the Kimball and Inmon Data Warehouse Architectures - Let's Compare the Kimball and Inmon Data Warehouse Architectures 5 minutes, 16 seconds - Let's look at the Kimball and Inmon approaches to **data warehouses**,. Which should you chose for your solution? What are the ... f698c6dc77 Overview f698c6dc77 4.2: Handling Slowly Changing Dimensions (SCD Types) f698c6dc77 What's a Dimension? f698c6dc77 STAR vs SNOWFLAKE Schema f698c6dc77 Dimensional Modeling - Dim Tables f698c6dc77 The Snowflake Schema The Snowflake Schema f698c6dc77 3.2: Designing Fact Tables in a Star Schema f698c6dc77 8.2: Utilizing Role-playing Dimensions Effectively f698c6dc77 Introduction f698c6dc77 Why Star Schema f698c6dc77 Modern Data Engineering \u0026 Data Warehouse Full Course: Zero to Architect (3 Hours) - Modern Data Engineering \u0026 Data Warehouse Full Course: Zero to Architect (3 Hours) 2 hours, 58 minutes - Stop building **data**, pipelines that break. In this 3-hour Modern **Data**, Engineering full course, we go from Zero to Architect, ... f698c6dc77 Databricks Free Account f698c6dc77 2.2: Defining Data Warehouse Design Objectives f698c6dc77 Spherical Videos f698c6dc77 Facts \u0026 Dimensions f698c6dc77 Dimension Tables and Fact Table using Spark SQL f698c6dc77 Factless Facts f698c6dc77 The BI Stack f698c6dc77 Intro to Dimension Tables f698c6dc77 Where do you start to design a data warehouse? f698c6dc77 What is Data Modeling and its Types? f698c6dc77 Create a Fact Table f698c6dc77 Playback f698c6dc77 OLTP vs OLAP Data Modeling f698c6dc77 Introduction f698c6dc77 Data Types f698c6dc77 How Hierarchies Organize Data for Better Analysis f698c6dc77 Design Decisions f698c6dc77 Types of Fact Tables f698c6dc77 Slowly Changing Dimensions: Type 2 f698c6dc77 Search filters f698c6dc77 Creating Data Model f698c6dc77 Introduction f698c6dc77 Logical Layer OLAP f698c6dc77 What's Data Warehouse f698c6dc77 Just the Facts Tables f698c6dc77 Types of Dimension Tables f698c6dc77 Dimensional Modeling - Constellation f698c6dc77 Data Warehouse Back to Basics: Dimensional Modeling - Data Warehouse Back to Basics: Dimensional Modeling 57 minutes - Data Warehouse, Back to Basics: **Dimensional**, Modeling This first session in our **Data Warehouse**, Series explores **Dimensional**, ... f698c6dc77 Data Modelling f698c6dc77 8.1: Introduction to Conformed Dimensions f698c6dc77 The Star Schema f698c6dc77 Transactional Database Design (OLTP) f698c6dc77 Data Modeling: One Big Table vs Kimball vs Relational for data engineers - Data Modeling: One Big Table vs Kimball vs Relational for data engineers 41 minutes - We'll be covering: - When to use One Big Table modeling vs Kimball - How to use Struct and Array and Array of Struct to get what ... f698c6dc77 Snapshot Tables f698c6dc77 Innovative Data Modeling for Cool Data Warehouses - Leslie Weed - Innovative Data Modeling for Cool Data Warehouses - Leslie Weed 2 hours, 23 minutes - There is much more to life than 3rd normal form and **dimensional**, modeling. Come explore how you can learn to build a **data**, ... f698c6dc77 Star Schema-Key Points f698c6dc77 Why Data Modeling? f698c6dc77 Normalization f698c6dc77 Bridge Tables f698c6dc77

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