ETL - Design & Implement Data Warehouse

Learn how to design, implement, and optimize a data warehouse.

Drive business intelligence and decision-making using ETL processes. This presentation covers the key steps involved in creating an efficient data warehouse.



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Understanding ETL

ETL (Extract, Transform, Load) is a fundamental data management process.

1 Extract 2 Transform 3 Load

Collecting data from various sources, Cleaning, organizing, and processing Storing data in the target system, such such as databases and APIs. data for analysis. as a data warehouse.

Star Schema Vs. Snowflake Schema

Understanding the key differences between Star and Snowflake Schemas. This helps to structure your data warehouse effectively.

Star Schema

- Central fact table.
- Directly connected dimension tables.
- Faster query performance.

Snowflake Schema

- Hierarchical dimensions.
- Saves storage space.
- Complex queries.

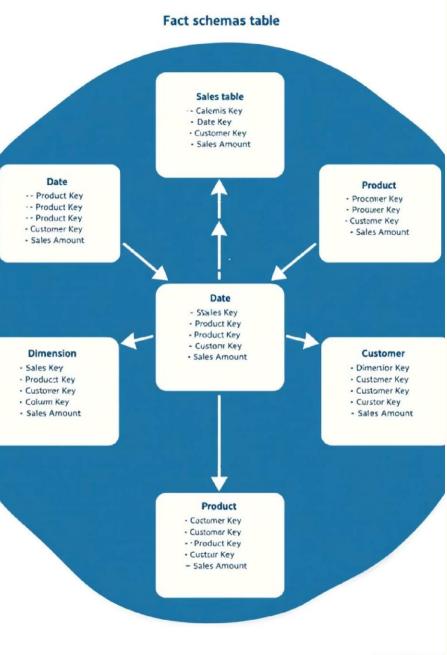
Choosing a Business

Fashion boutique owned by an independent designer.



Case

Made with **GAMMA**



Customer

Product

Order

Employees

Payments

Purchases

Implementing a Star Schema

Star Schema Implementation.

Fact Table

1 "Purchase Records"

Dimension Tables

2 Products, Employees, Orders, Payments, Customers.

Insights and Conclusions

Communication among team members was crucial.

Standardized Codes

Identification codes across tables.

Consistent Naming

Table and column names for Foreign-Key relationships.

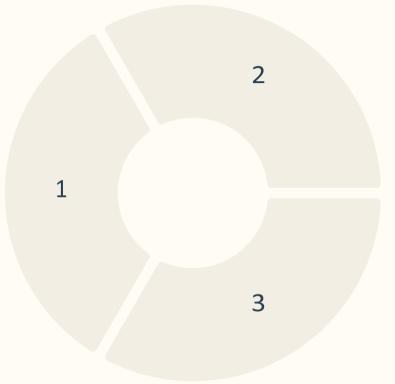


Table Order

Dimension tables first, followed by the fact table.



Thank You

Thank you for listening. Sapir, Anan and Tomer.

Link to SQL code:

Click here