

Comparison of Datawarehouse elaboration methodologies vs. Datalake elaboration methodologies

Valdivia Guzman, Alejandra Maria

Pazos Alarcón, Christian Joshua

Farfan Colque, Mathius Omar

Condori Quispe, Yhónn Joel

May 27, 2022

Resumen

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi vulputate tempus molestie.

Abstract

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi vulputate tempus molestie.

I. INTRODUCTION

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi vulputate tempus molestie.

II. STATE OF ART

i. Datawarehouse

Kimball's methodology, called Dimensional Modeling, is based on what is called the Business Dimensional Lifecycle. This methodology is considered one of the favorite techniques when building a Data Warehouse[1].

In the Dimensional Model, models of tables and relationships are constituted with the purpose of optimizing decision making, based on queries made in a relational database that are linked to the measurement or a set of measurements of the results of the business processes[1].

ii. Features

This DW project life cycle is based on four basic principles:

- Focus on the business: Concentrate on identifying business requirements and their associated value, and use these efforts to develop strong relationships with the business, sharpening the business analysis and consultative competence of the implementers[1].
- Build an adequate information infrastructure: Design a single, integrated, easy-to-use, high-performance information base that will reflect the wide range of business requirements identified in the company[1].
- Deliver in significant increments: create the data warehouse (DW) in deliverable increments in 6 to 12 month timeframes. Use the business value of each identified element to determine the order of application of the increments. In this the methodology resembles agile software construction

methodologies[1].

- Deliver the complete solution: provide all the elements necessary to deliver value to business users. To begin with, this means having a robust, well-designed, quality-tested, and accessible data warehouse. You must also provide ad hoc query tools, advanced reporting and analysis applications, training, support training, support, support, website and documentation[1].

III. CONCLUSIONS

- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi vulputate tempus molestie.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi vulputate tempus molestie.

REFERENCES

- [1] Zapata Yáñez V. M. Morales Guamán K. P. & Toaquiza Padilla L. M. Silva Peñafiel, G. E. Análisis de metodologías para desarrollar data warehouse aplicado a la toma de decisiones. 2019.