



Information Management Report



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TARGET's Lesson Learned

1. What did you learn?

A significant learning point from this project was the importance of balancing offensive and defensive data strategies. Target's data strategy emphasizes offensive objectives (customer engagement, operational efficiency, and real-time insights) while ensuring a robust defense (data security, compliance, and consistency). This dual focus is essential for companies to scale effectively while managing risks.

Also, working with Target's four data models (3 transactional and 1 data warehouse) provided practical insights into how large-scale organizations handle high volumes of data. The separation of transactional applications from the data warehouse highlights how structured data is processed efficiently for operational tasks and stored for analytical purposes.

2. What was most valuable?

Developing and working on Target's data security matrix was valuable. It demonstrated the importance of assigning different role with different control privileges. This activity highlighted how data security protocols are tailored to the operational needs of different users while maintaining high security standards.

Moreover, learning how Target ensures data consistency and quality through MDM systems and strong governance practices was critical. Target's ability to manage its massive data repositories through stewardship, quality management, and compliance protocols demonstrates the power of centralized and well-structured data governance frameworks.

3. How can you use this learning going forward?

The project emphasized the use of advanced tools (NLP, sentiment analysis, computer vision) to handle semi-structured and unstructured data. These techniques can be applied in future projects that involve analyzing customer feedback, product trends, or security footage to derive actionable insights.

4. What are additional opportunities for learning that this project did not capture?

While the project provided a good overview of Target's real-time data insights, it could have dived deeper into the specifics of real-time processing, such as stream processing and event-driven architectures that manage data as it is generated, especially in high-transaction retail environments.

5. How can we change this project to capture these opportunities?

Future iterations of this project could incorporate a detailed exploration of how Target processes real-time data streams, using technologies like Kafka or Flink. Additionally, incorporating an AI-driven model (e.g., demand forecasting using predictive analytics) would add depth to understanding Target's data strategy.