**Project Title: Data Warehousing with IBM Cloud Db2 Warehouse**

**Problem Statement:**

Our organization faces challenges in efficiently managing and analyzing large volumes of data from various sources, hindering data-driven decision-making and performance. We need a robust data warehousing solution to address these challenges.

**Design Thinking Approach:**

**Empathize:**

* + Understand the pain points of stakeholders who rely on data for their roles.
  + Gather insights on data accessibility, query performance, and compliance needs.

**Define:**

* + Clearly define the project objectives, including improving data management, query speed, and data security.
  + Identify key stakeholders, their roles, and expectations.

**Ideate:**

* + Brainstorm solutions, including data ingestion methods, data modeling strategies, and performance optimization techniques.
  + Explore design considerations, such as user-friendly interfaces and security measures.

**Prototype:**

* + Create a prototype data warehousing system on IBM Cloud Db2 Warehouse.
  + Develop a sample database schema and load test data for initial testing.

**Test and Refine:**

* + Conduct usability testing with stakeholders to gather feedback on the prototype.
  + Refine the data model and query performance based on user input.

**Implement and Scale:**

* + Deploy the Db2 Warehouse-based data warehousing system.
  + Monitor and scale resources as needed to accommodate growing data volumes.

**Iterate and Improve:**

* + Continuously gather feedback from end-users and stakeholders.
  + Use feedback to refine data models, queries, and system performance.
  + Ensure ongoing compliance with data regulations.

**Project Timeline:**

* Phase 1 -Problem Definition and Design Thinking: [21/9/23 - 29/9/23]
* Phase 2 - Innovation: [29/9/23 - 7/10/23]
* Phase 3 - Development Part1: [7/10/23 - 13/10/23]
* Phase 4 - Development Part2: [13/10/23 - 20/10/23]
* Phase 5 - Project Documentation &amp; Submission: [20/10/23 - 27/10/23]

**Objectives:**

**Our primary objectives for this project are to:**

* Efficiently manage and analyze large volumes of data from various sources.
* Improve data-driven decision-making within the organization.
* Enhance query performance for faster data retrieval.
* Ensure data security and compliance with regulatory requirements.

**Conclusion:**

By following a design thinking approach, we aim to create an effective data warehousing solution using IBM Cloud Db2 Warehouse. This approach ensures that we address the key challenges faced by our organization, leading to improved data management, faster query performance, and enhanced data security.