# M1 Case Study Analysis

*Answer each question in three paragraphs, referencing module resources where relevant. Please also review the grading rubric for this assignment in Canvas.*

**Q1:** **Does the** **CDR scenario fall under a more contemporary definition of a data warehouse according to Kimball? Why or Why not?**

Based on a comprehensive consideration, this scenario is not enough under a more contemporary definition of a data warehouse according to Kimball.

From the CDR content in Table1, we can see it gets data from different data sources and then data from each of these source systems are integrated into the CDR’s data model. This is the definition of Data warehouse in Kimball that data is drawn from different operational systems and and then go into the staging area via ETL and then load into the data warehouse.(“The Data Warehouse Toolkit, 2013”)

However, considering the Goals of Data Warehousing and Business Intelligence, it doesn’t satisfy that Business users will embrace the DW/BI system since it’s not easy enough to access such as it has to be used Query Formulation to search the information.and the system is not presented information in a timely way according to that users with a pressing need for data for a meeting, report, or grant, prefer to use CDR team members as intermediaries or analysts.

**Q2: What are the top challenges that a CDR faces?**

In the Evaluation part, it concludes that the CDR system has some challenges to be fixed in users-side.

The system is used many times per day, but users sited that they don’t have enough time to use the CDR because the interface for users is not easy to be use that have to be trained.

Besides, the CPR's use of encrypted patient and physician identifiers was viewed as a barrier for users. And the privacy and confidentiality policies and methodologies may not be set up to serve a research or teaching function.

**Q3: What would you do differently give that there is broader access to better technology, new methodologies since 2001 when the case was written?**

The users of this CDR data warehouse has some issues that mentioned in the Discussion.

Besides that issues, their original definition of users can be extended to include patients. We can see they also missed BI tools that could visually analyze the data over time.

In the article, the schema types of data warehouse is not mentioned but based on the contents of CDR, we can see the description of Inpatients and outpatients visits data includes too many attributes that may need a complicated Query Formulation for user to dive into the data to get the information they want.