**CS403 - Database Management Systems**

**Graded Discussion Board**

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**Solution:**

No, relational databases are not suitable in the above given scenario to handle and manage different types of data.

* Relational databases (RDBs) are mostly suitable to store and manage structured data in databases but is not always the best solution for all situations as it cannot handle huge amount of unstructured data.
* Relational databases are the dominant technology for storing and managing data, but are not designed to handle big data and cloud technologies in which million terabytes of data store, retrieve, manage at a single time.

The best option to select for the given scenario is **NoSQL** database system which is non-relational database.

**NoSQL:**

NoSQL is a non-relational database technology driven by Cloud Computing, the Web and the Big Data. A NoSQL Cloud Database Services is a database that provides a way that helps to store and retrieve structured data as well as semi-structured and unstructured data at a single time.

**NoSQL Advantages:**

* NoSQL is best known for its scalability, simplicity, less code, and easy maintenance.
* NoSQL database is an alternative to SQL database which does not require any kind of fixed table schemas unlike the SQL.
* NoSQL manage such structures that can store different forms of data in an efficient way.
* High performance, easy availability and high functional.

**Conclusion:**

Non-relational databases such as NoSQL is suitable for the given scenario to store, manage and retrieve structured data, semi-structured and unstructured data.