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Dropbox: Week 1 – Critical Definitions

- Data Redundancy – duplication of data, non-database systems maintain separate copy of data for each application to inconsistency or incorrect data at times.

- Data Inconsistency – multiple mismatching copies of the same data, when the redundancy is not controlled there may be occasions when the two entries about the same data do not agree at such times, the database is said to be consistent and inconsistent database will provide incorrect or conflicting information.

- Data Sharing – is the ability to distribute the same sets of data resources with multiple users or applications while maintaining data fidelity across all entities consuming the data.

- Relational Database – is a type of database. It uses a structure that allows us to identify and access data in relation to another piece of data in the database. Often, data in a rational database is organized into tables.

- Tables - is data set that is organized into rows and columns. Tables can have hundreds, thousands, sometimes even millions of rows of data. Tables can also have many columns of data.

- Rows – are often called records.

- Columns – are labeled with a descriptive name (say, age for example) and have a specific data type.

- Primary Key – one or more attributes that create a unique key.

- Composite Key - primary key that consists of more than one attribute.

- Foreign Key - is an attribute (possibly composite) in relation that servers as the primary key of another relation. Referential Integrity.

- Data Structure - data are organized in the form of tables (rows and columns)

- Data Manipulation - is a computer programming language used for adding, deleting, and modifying data in a database. A DML is often a sublanguage of a broader database language such as SQL, with the DML comprising some of the operators in the language. Powerful operations.

- Data Integrity - the model includes mechanisms to specify rules (business) that maintain the integrity of data when they are manipulated.