

WEEK 1 Critical Definitions Shad Downes Database Design

- Data Redundancy- redundancy means duplicate data and it is also stated that the same parts of data exist in multiple locations in the database.
- Data Inconsistency- a situation where multiple tables within a database deal with the same data but may receive it from different inputs.
- Data Sharing- the ability to distribute the same data resources with multiple users or applications while maintaining data fidelity across all entities consuming the data.
- Relational Database- a database structured to recognize relations among stored items of information, also a two-dimensional table of data
- Table-a set of data elements
- Row- horizontal set of data
- Column- a vertical series of cells in the table on a database
- Primary Key- most important - ID, Ex. First and Last name
- Composite Key- a key that consists of two or more attributes that together uniquely identify
- Foreign Key- Primary Key of another table
- Data Structure-
 - Relation = Table
 - row
 - columns
- Data Manipulation-
 - powerful operation
 - SQL - Sequential Query Language
- Data Integrity - data accuracy and consistency
 - Overlap