As an FYI there is an updated video for the video titled " Chapter 1: Fundamental Concepts of Database Management” see below for the hyperlink.

<https://www.youtube.com/watch?v=8Pa_P3qnJco&index=1&list=PLdQddgMBv5zEhlpqdiUcf9aTNEtmESgyl>

A relational database is a database that stores data by relating tables made up of rows and columns. Relational databases allow data to be application independent and accessed by multiple applications. Rows in the table represent entries where there is a key that represents a unique identifier for that row. The columns in the row represent different attributes or fields of the row. Because the data is tightly structured the data can be queried using SQL which allow for an easy written queries.

RDMSs allow storage and retrieval of traditional and numeric data. For instance, the amount of items in stock or the amount and date of delivery for a specific item. RDMSs allow storage and retrieval of multimedia data, including videos, audio, and images. For instance YouTube can be structured as a relational database with the different videos being entries.

The main components of a relational database are the data model, schemas and instances, the three-schema architecture, data dictionary, database users, DBMS languages. The data model is describes the data concepts and its constraints. The data model is composed of the three-schema architecture: the conceptual data model, the logical data model, and physical model. The conceptual data model encapsulates high-level data concepts and should be close to how the business user perceives the data relationships. The logical data model displays concepts in businesslike language that abstract the physical data organization but are independent from the physical technology. (<https://en.wikipedia.org/wiki/Logical_data_model>). Examples of a logical data models are heiarchial, network, relational, and object oriented models. Physical models display low-level concepts that describe the data’s physical details. Schema clarify the data and their definitions. The Database schema is considered relatively static.