

# Relational DB & SQL - C11

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## Introduction to Database

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### Key Terms

**concurrency control strategies:** features of a database that allow several users access to the same data item at the same time

**data elements:** facts that represent real-world information

**data type:** determines the sort of data permitted in a field, for example numbers only

**data uniqueness:** ensures that no duplicates are entered

**database:** a shared collection of related data used to support the activities of a particular organization

**database constraint:** a restriction that determines what is allowed to be entered or edited in a table

**database management system (DBMS):** a collection of programs that enables users to create and maintain databases and control all access to them

**metadata:** defines and describes the data and relationships between tables in the database

**read and write privileges:** the ability to both read and modify a file

**read-only access:** the ability to read a file but not make changes

**self-describing:** a database system is referred to as self-describing because it not only contains the database itself, but also metadata which defines and describes the data and relationships between tables in the database

**table:** a combination of fields

**view:** a subset of the database

**concurrency:** the ability of the database to allow multiple users access to the same record without adversely affecting transaction processing

**data element:** a single fact or piece of information

**data inconsistency:** a situation where various copies of the same data are conflicting

**data isolation:** a property that determines when and how changes made by one operation become visible to other concurrent users and systems

**data integrity:** refers to the maintenance and assurance that the data in a database are correct and consistent

**data redundancy:** a situation that occurs in a database when a field needs to be updated in more than one table

**database approach:** allows the management of large amounts of organizational information

**database management software:** a powerful software tool that allows you to store, manipulate and retrieve data in a variety of ways

**file-based system:** an application program designed to manipulate data files

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