Datastores implement the CRUD operations:

- C: **create** put data into the datastore
- R: **read** get data from the datastore
- U: **update** change the data in the datastore
- D: **delete** remove data from the datastore

RDBMS – relational database management system

SQLite v3 - https://sqlite.org/index.html - single-user RDBMS

SQL: aka "sequel" - Structured Query Language – specify WHAT you want to happen, and the RDBMS works out the details.

Example technologies: Oracle – MySQL – MariaDB

DDL: Data Definition Language – describes the **structure** of your data – what type of data, how many columns, how many entities.

Example commands (see the transcript for examples) include:

create database grant show databases show tables create table describe drop table

DML: Data Manipulation Language – work with you data – these are the CRUD opertations.

- select CRUD's read filtering with "where" sorting with "order by", either DESC or ASC (default).
- insert CRUD's create.
- update the same as CRUD's update operation.
- delete the same as CRUD's delete operation.

BUT: **BE CAREFUL** – select FIRST, then delete or update (based on requirements).