DATA AND VALUES

DATA TYPES	
TEXT: Characters surrounded by quotes	"String1"
INTEGER: Whole number, positive or negative	10 0
REAL: Floating point (decimal) number	-20.50 5.32434
BOOLEAN: True or False values	TRUE FALSE
DATETIME: A string representing a date	"2021-01-02"
NULL: Value missing/not entered	NULL

SQL FILE

CREATING & RUNNING SQL FILES		
Create database (on the command line)	sqlite3 databasename.db	
Read sql file and run commands within	.read file.sql	
Get a list of all the tables within the database	.tables	
Get information on a specific table	PRAGMA table_info(TableName)	
COMMENTS		
Block comment (multi-line)	/* Commented Out */	
Single-line comment	Commented Out	

CREATE TABLE

```
CREATE TABLE [IF NOT EXISTS] TableName (
Create table syntax
                            Column1 DataType [UNIQUE] [NULL | NOT NULL],
                            Column2 DataType, [...]
Include optional
                            [CONSTRAINT constraint_type]
constraints:
                          );
                          CREATE TABLE [IF NOT EXISTS] TableName (
Include optional
                            [\ldots]
constraints:
                            CONSTRAINT constraint type
                          );
                          CREATE TABLE IF NOT EXISTS TableName (
Check if table exists before
                            [\ldots]
creating
                          );
                          CREATE TABLE TableName (
Ensure values in column are
                            Column1 DataType UNIQUE,
unique
                            Column2 DataType, [...]
                          );
                          CREATE TABLE TableName (
Using CONSTRAINT: Can
add multiple columns to list
                            CONSTRAINT UK ColName UNIQUE(ColName, [ColName2])
                          CREATE TABLE [IF NOT EXISTS] TableName (
Create primary key from
                            Column1 DataType PRIMARY KEY
Column1
                          );
Using CONSTRAINT: Can
                          CREATE TABLE [IF NOT EXISTS] TableName (
                            ColumnName1 DataType, [...]
add multiple columns to a
                            CONSTRAINT PK_Col1_Col2 PRIMARY KEY (Col1, Col2)
primary key
                          );
                          CREATE TABLE [IF NOT EXISTS] TableName (
Create an auto-increment
                            ColumnName1 INT PRIMARY KEY AUTOINCREMENT
integer primary key
                          );
                          CREATE TABLE Order(
Example: Create new table
                            OrderId INT PRIMARY KEY AUTOINCREMENT,
Orders with 3 columns: Id,
                            Name VARCHAR(255),
Name, Total
                            Total REAL
                          );
```

ALTERING & DELETING A TABLE

Add column	ALTER TABLE TableName ADD COLUMN ColumnName DataType [NOT NULL];
Create new column & ensure values added are not null	ALTER TABLE TableName ADD COLUMN ColumnName DataType NOT NULL;
Set default value for rows in new column	ALTER TABLE TableName ADD COLUMN ColumnName NOT NULL DEFAULT DefaultValue;
Drop column	ALTER TABLE TableName DROP COLUMN ColumnName
Rename column	ALTER TABLE TableName RENAME COLUMN OldName TO NewName
Rename table	ALTER TABLE TableName RENAME TO NewTableName
Truncate table	TRUNCATE TABLE TableName;
Delete a table	DROP TABLE TableName;