

Basics

```
sqlite filename.db
```

Will create a new database

Create Tables

```
CREATE TABLE name (
  colname type constraints,
  colname type constraints
)
```

This will create a new table. For types and constraints look right.

Insert Data

```
INSERT INTO tablename (column2,
  column4)
VALUES
  (data1, data2),
  (data3, data4);
```

You don't have to fill every column of the table. It is often useful to leave out columns with primary keys or default value insertion.

Update Tables

```
UPDATE tablename
SET column5 = value5
WHERE expression
```

This will update the given column with the given value, where the expression evaluates true (usually specific primary key).

Alter Tables

The ALTER TABLE function is limited in SQLite.

You can either rename the table with:

```
ALTER TABLE tablename RENAME TO
  newtablename
```

Or add a new column with:

```
ALTER TABLE tablename ADD COLUMN
  columndefinition
```

It is not possible to change column definitions of existing tables.

Drop Table

```
DROP TABLE tablename
```

Select from Table

```
SELECT table1.column1,
  table.2column2,
FROM table1, table2
WHERE expression
ORDER BY table1.column1 order
```

The ORDER BY is optional, possible ways to order are ASC (ascending) and DESC (descending).

Data Types

NULL null value

INTEGER Integer value

REAL 8-byte floating point number

TEXT Text with UTF encoding

BLOB Blob-Data (stored like input)

BOOLEAN Will be stored as Integer (0 for false, 1 for true)

Constraints

PRIMARY KEY Sets column as primary key. The constraints NOT NULL and UNIQUE will be set automatically.

NOT NULL Prevents the column from empty values (null).

UNIQUE Each value in the column has to be unique.

INTEGER PRIMARY KEYs will automatically become the ROWID and therefore will be automatically incremented. This column can be accessed as ROWID, OID, _ROWID_ or the column name.



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