http://www.tutorialspoint.com/sqlite/sqlite_syntax.htm

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SQLite is followed by unique set of rules and guidelines called Syntax. This tutorial gives you a quick start with SQLite by listing all the basic SQLite Syntax.

Case Sensitivity

Important point to be noted is that SQLite is **case insensitive**, but there are some commands, which are case sensitive like **GLOB** and **glob** have different meaning in SQLite statements.

Comments

SQLite comments are extra notes, which you can add in your SQLite code to increase its readability and they can appear anywhere; whitespace can occur, including inside expressions and in the middle of other SQL statements but they can not be nested.

SQL comments begin with two consecutive "-" characters ASCII0x2d and extend up to and including the next newline character ASCII0x0a or until the end of input, whichever comes first.

You can also use C-style comments, which begin with "/*" and extend up to and including the next "*/" character pair or until the end of input, whichever comes first. C-style comments can span multiple lines.

```
sqlite>.help -- This is a single line comment
```

SQLite Statements

All the SQLite statements start with any of the keywords like SELECT, INSERT, UPDATE, DELETE, ALTER, DROP, etc., and all the statements end with a semicolon;

SQLite ANALYZE Statement:

```
ANALYZE;
or
ANALYZE database_name;
or
ANALYZE database_name.table_name;
```

SQLite AND/OR Clause:

```
SELECT column1, column2....columnN
FROM table_name
WHERE CONDITION-1 {AND | OR} CONDITION-2;
```

SQLite ALTER TABLE Statement:

```
ALTER TABLE table_name ADD COLUMN column_def...;
```

SQLite ALTER TABLE Statement *Rename*:

```
ALTER TABLE table_name RENAME TO new_table_name;
```

SQLite ATTACH DATABASE Statement:

```
ATTACH DATABASE 'DatabaseName' As 'Alias-Name';
```

SQLite BEGIN TRANSACTION Statement:

```
BEGIN;
```

```
or
BEGIN EXCLUSIVE TRANSACTION;
```

SQLite BETWEEN Clause:

```
SELECT column1, column2....columnN
FROM table_name
WHERE column_name BETWEEN val-1 AND val-2;
```

SQLite COMMIT Statement:

```
COMMIT;
```

SQLite CREATE INDEX Statement:

```
CREATE INDEX index_name
ON table_name ( column_name COLLATE NOCASE );
```

SQLite CREATE UNIQUE INDEX Statement:

```
CREATE UNIQUE INDEX index_name
ON table_name ( column1, column2,...columnN);
```

SQLite CREATE TABLE Statement:

```
CREATE TABLE table_name(
    column1 datatype,
    column2 datatype,
    column3 datatype,
    .....
    columnN datatype,
    PRIMARY KEY( one or more columns )
);
```

SQLite CREATE TRIGGER Statement:

```
CREATE TRIGGER database_name.trigger_name
BEFORE INSERT ON table_name FOR EACH ROW
BEGIN
stmt1;
stmt2;
....
END;
```

SQLite CREATE VIEW Statement:

```
CREATE VIEW database_name.view_name AS SELECT statement....;
```

SQLite CREATE VIRTUAL TABLE Statement:

```
CREATE VIRTUAL TABLE database_name.table_name USING weblog( access.log );
or
CREATE VIRTUAL TABLE database_name.table_name USING fts3( );
```

SQLite COMMIT TRANSACTION Statement:

```
COMMIT;
```

SQLite COUNT Clause:

```
SELECT COUNT(column_name)
FROM table_name
WHERE CONDITION;
```

SQLite DELETE Statement:

```
DELETE FROM table_name
WHERE {CONDITION};
```

SQLite DETACH DATABASE Statement:

```
DETACH DATABASE 'Alias-Name';
```

SQLite DISTINCT Clause:

```
SELECT DISTINCT column1, column2....columnN FROM table_name;
```

SQLite DROP INDEX Statement:

```
DROP INDEX database_name.index_name;
```

SQLite DROP TABLE Statement:

```
DROP TABLE database_name.table_name;
```

SQLite DROP VIEW Statement:

```
DROP INDEX database_name.view_name;
```

SQLite DROP TRIGGER Statement:

```
DROP INDEX database_name.trigger_name;
```

SQLite EXISTS Clause:

```
SELECT column1, column2....columnN
FROM table_name
WHERE column_name EXISTS (SELECT * FROM table_name );
```

SQLite EXPLAIN Statement:

```
EXPLAIN INSERT statement...;
or
EXPLAIN QUERY PLAN SELECT statement...;
```

SQLite GLOB Clause:

```
SELECT column1, column2....columnN
FROM table_name
WHERE column_name GLOB { PATTERN };
```

SQLite GROUP BY Clause:

```
SELECT SUM(column_name)
FROM table_name
WHERE CONDITION
GROUP BY column_name;
```

SQLite HAVING Clause:

```
SELECT SUM(column_name)
FROM table_name
WHERE CONDITION
GROUP BY column_name
HAVING (arithematic function condition);
```

SQLite INSERT INTO Statement:

```
INSERT INTO table_name( column1, column2....columnN)
VALUES ( value1, value2....valueN);
```

SQLite IN Clause:

```
SELECT column1, column2....columnN
FROM table_name
WHERE column_name IN (val-1, val-2,...val-N);
```

SQLite Like Clause:

```
SELECT column1, column2....columnN
FROM table_name
WHERE column_name LIKE { PATTERN };
```

SQLite NOT IN Clause:

```
SELECT column1, column2....columnN
FROM table_name
WHERE column_name NOT IN (val-1, val-2,...val-N);
```

SQLite ORDER BY Clause:

```
SELECT column1, column2....columnN
FROM table_name
WHERE CONDITION
ORDER BY column_name {ASC|DESC};
```

SQLite PRAGMA Statement:

```
PRAGMA pragma_name;

For example:

PRAGMA page_size;

PRAGMA cache_size = 1024;

PRAGMA table_info(table_name);
```

SQLite RELEASE SAVEPOINT Statement:

```
RELEASE savepoint_name;
```

SQLite REINDEX Statement:

```
REINDEX collation_name;
REINDEX database_name.index_name;
REINDEX database_name.table_name;
```

SQLite ROLLBACK Statement:

```
ROLLBACK;
```

```
or
ROLLBACK TO SAVEPOINT savepoint_name;
```

SQLite SAVEPOINT Statement:

SAVEPOINT savepoint_name;

SQLite SELECT Statement:

```
SELECT column1, column2....columnN FROM table_name;
```

SQLite UPDATE Statement:

```
UPDATE table_name
SET column1 = value1, column2 = value2....columnN=valueN
[ WHERE CONDITION ];
```

SQLite VACUUM Statement:

VACUUM;

SQLite WHERE Clause:

```
SELECT column1, column2....columnN FROM table_name
WHFRF CONDITTON:
```

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