

# Modifying data

## SQL Reference

### INSERT

INSERT INTO ... VALUES ... adds new rows 行. Name the columns, then give the values in the same order. (Each block below ends with a SELECT so you can see the result.)

```
CREATE TABLE student (id INTEGER, name TEXT, score INTEGER);
INSERT INTO student (id, name, score) VALUES (1, 'Mei', 88);
INSERT INTO student VALUES (2, 'Sam', 71);
SELECT * FROM student;
```

### UPDATE

UPDATE ... SET ... WHERE ... changes existing rows. **Always** add WHERE, or every row changes.

```
CREATE TABLE student (id INTEGER, name TEXT, score INTEGER);
INSERT INTO student VALUES (1, 'Mei', 88), (2, 'Sam', 71);
UPDATE student SET score = 75 WHERE name = 'Sam';
SELECT * FROM student;
```

### DELETE

DELETE FROM ... WHERE ... removes rows. Without WHERE it empties the whole table 表.

```
CREATE TABLE student (id INTEGER, name TEXT, score INTEGER);
INSERT INTO student VALUES (1, 'Mei', 88), (2, 'Sam', 71);
DELETE FROM student WHERE score < 80;
SELECT * FROM student;
```