

# SQLite Table Construction

---

```
/* create a groups table */
CREATE TABLE groups (group_name VARCHAR(50) PRIMARY KEY);

/* insert into the table */
INSERT INTO groups VALUES ('group1');
INSERT INTO groups VALUES ('group2');
```

```
/* create a categories table */
CREATE TABLE categories (
    category_name VARCHAR(50) PRIMARY KEY,
    group_name VARCHAR(50),
    FOREIGN KEY(group_name) REFERENCES groups(group_name)
);

/* insert into the table */
INSERT INTO categories VALUES ('first category', 'group1');
INSERT INTO categories VALUES ('second category', 'group1');

INSERT INTO categories VALUES ('first category(2)', 'group2');
INSERT INTO categories VALUES ('second category(2)', 'group2');
```

```
/* create a products table */
CREATE TABLE products (
    product_name VARCHAR(50) PRIMARY KEY,
    category_name VARCHAR(50),
    FOREIGN KEY(category_name) REFERENCES categories(category_name)
);

/* insert into the table */
INSERT INTO products VALUES ('product1', 'first category');
INSERT INTO products VALUES ('product2', 'first category');

INSERT INTO products VALUES ('product3', 'second category');
INSERT INTO products VALUES ('product4', 'second category');

INSERT INTO products VALUES ('product5', 'first category(2)');
INSERT INTO products VALUES ('product6', 'first category(2)');

INSERT INTO products VALUES ('product7', 'second category(2)');
INSERT INTO products VALUES ('product8', 'second category(2)');
```

```

/* create a variation table */
CREATE TABLE variations (
    variation_name VARCHAR(50) PRIMARY KEY,
    product_name VARCHAR(50),
    variation_documentation VARCHAR(50),
    FOREIGN KEY(product_name) REFERENCES products(product_name)
);

/* insert into the table */
INSERT INTO variations VALUES ('variation1', 'product1', "sample.pdf");
INSERT INTO variations VALUES ('variation2', 'product1', "sample.pdf");

INSERT INTO variations VALUES ('variation3', 'product2', "sample.pdf");
INSERT INTO variations VALUES ('variation4', 'product2', "sample.pdf");

INSERT INTO variations VALUES ('variation5', 'product3', "sample.pdf");
INSERT INTO variations VALUES ('variation6', 'product3', "sample.pdf");

INSERT INTO variations VALUES ('variation7', 'product4', "sample.pdf");
INSERT INTO variations VALUES ('variation8', 'product4', "sample.pdf");

INSERT INTO variations VALUES ('variation9', 'product5', "sample.pdf");
INSERT INTO variations VALUES ('variation10', 'product5', "sample.pdf");

INSERT INTO variations VALUES ('variation11', 'product6', "sample.pdf");
INSERT INTO variations VALUES ('variation12', 'product6', "sample.pdf");

INSERT INTO variations VALUES ('variation13', 'product7', "sample.pdf");
INSERT INTO variations VALUES ('variation14', 'product7', "sample.pdf");

INSERT INTO variations VALUES ('variation15', 'product8', "sample.pdf");
INSERT INTO variations VALUES ('variation16', 'product8', "sample.pdf");

/* error testing */
INSERT INTO variations VALUES ('variation17', 'product8', "");

```

```

/* create a steps table */
CREATE TABLE steps (
    step VARCHAR(50),
    description VARCHAR(50),
    video VARCHAR(50),
    variation_name VARCHAR(50),
    FOREIGN KEY(variation_name) REFERENCES variations(variation_name)
);

/* insert into the table */
INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation1');

```

```
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation1');
INSERT INTO steps VALUES ('step 3', 'description text here', 'sample.mp4',
'variation1');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation2');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation2');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation3');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation3');
INSERT INTO steps VALUES ('step 3', 'description text here', 'sample.mp4',
'variation3');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation4');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation4');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation5');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation5');
INSERT INTO steps VALUES ('step 3', 'description text here', 'sample.mp4',
'variation5');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation6');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation6');
INSERT INTO steps VALUES ('step 3', 'description text here', 'sample.mp4',
'variation6');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation7');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation7');
INSERT INTO steps VALUES ('step 3', 'description text here', 'sample.mp4',
'variation7');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation8');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation8');
```

```

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation9');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation9');
INSERT INTO steps VALUES ('step 3', 'description text here', 'sample.mp4',
'variation9');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation10');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation11');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation11');
INSERT INTO steps VALUES ('step 3', 'description text here', 'sample.mp4',
'variation11');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation12');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation12');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation13');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation13');
INSERT INTO steps VALUES ('step 3', 'description text here', 'sample.mp4',
'variation13');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation14');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation14');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation15');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation15');

INSERT INTO steps VALUES ('step 1', 'description text here', 'sample.mp4',
'variation16');
INSERT INTO steps VALUES ('step 2', 'description text here', 'sample.mp4',
'variation16');

/* error testing */
INSERT INTO steps VALUES ('step 1', '', 'sample.mp4', 'variation17');
INSERT INTO steps VALUES ('', 'description text here', 'sample.mp4',
'variation17');

```

