Create Tables


```
1  CREATE TABLE coffee_shop (
2      shop_id INT PRIMARY KEY AUTO_INCREMENT,
3      shop_name VARCHAR(50) NOT NULL,
4      city VARCHAR(50) NOT NULL,
5      state CHAR(2) NOT NULL
6  );
7
8
9
10
```

```
1  SELECT *
2  FROM coffee_shop;
```

Build Schema | Edit Fullscreen | Browser | [;] ▾   Run SQL ▶ ▾ | Edit Fullscreen | [;] ▾

shop_id	shop_name	city	state
1	Kahvi	Los Angeles	CA
2	Koffie	Austin	TX
3	Kafve	Chicago	IL

✔ Record Count: 3; Execution Time: 2ms   + View Execution Plan   → link

CREATE TABLE coffee_shop (

  shop_id INT PRIMARY KEY AUTO_INCREMENT,

  shop_name VARCHAR(50) NOT NULL,

  city VARCHAR(50) NOT NULL,

  state CHAR(2) NOT NULL

);

```
11  CREATE TABLE employee (
12    employee_id INT PRIMARY KEY AUTO_INCREMENT,
13    first_name VARCHAR(30) NOT NULL,
14    last_name VARCHAR(30) NOT NULL,
15    hire_date DATE NOT NULL,
16    job_title VARCHAR(30) NOT NULL,
17    shop_id INT,
18    FOREIGN KEY (shop_id) REFERENCES coffee_shop(shop_id)
19  );
```

```
1  SELECT *
2  FROM employee;
```

Build Schema ⬇   Edit Fullscreen ⤢   Browser ⬇   [;]▾   Run SQL ▶ ▾   Edit Fullscreen ⤢   [;]▾

employee_id	first_name	last_name	hire_date	job_title	shop_id
1	Jane	Siemens	2012-01-23	barista	1
2	Erin	Wee	2013-04-05	cashier	1
3	Afsoun	Hanifi	2013-07-01	barista	2

✔ Record Count: 3; Execution Time: 2ms   + View Execution Plan   → link

CREATE TABLE employee (

 employee_id INT PRIMARY KEY AUTO_INCREMENT,

 first_name VARCHAR(30) NOT NULL,

 last_name VARCHAR(30) NOT NULL,

 hire_date DATE NOT NULL,

 job_title VARCHAR(30) NOT NULL,

 shop_id INT,

 FOREIGN KEY (shop_id) REFERENCES coffee_shop(shop_id)

);

```
21
22  CREATE TABLE supplier (
23    supplier_id INT PRIMARY KEY AUTO_INCREMENT,
24    company_name VARCHAR(50) NOT NULL,
25    country VARCHAR(30) NOT NULL,
26    sales_contact_name VARCHAR(60) NOT NULL,
27    email VARCHAR(50) NOT NULL
28  );
29
30
```

```
1  SELECT *
2  FROM supplier;
```

Build Schema ⬆   Edit Fullscreen ⤢   Browser ⬆   [;] ▾

Run SQL ▶   ▾   Edit Fullscreen ⤢   [;] ▾

supplier_id	company_name	country	sales_contact_name	email
1	Coffee Supply Co	US	Mike Hamilton	mhamilton1@coffeesupplyco.com
2	Death by Coffee	US	Leslie Chavez	lchavez@deathbycoffee.com
3	Kickstart Coffee	UK	Reginald Northumberland	regland@kickstartcoffee.com

✔ Record Count: 3; Execution Time: 2ms   + View Execution Plan   → link

CREATE TABLE supplier (

 supplier_id INT PRIMARY KEY AUTO_INCREMENT,

 company_name VARCHAR(50) NOT NULL,

 country VARCHAR(30) NOT NULL,

 sales_contact_name VARCHAR(60) NOT NULL,

 email VARCHAR(50) NOT NULL

);

```sql
31  CREATE TABLE coffee (
32    coffee_id INT PRIMARY KEY AUTO_INCREMENT,
33    shop_id INT,
34    supplier_id INT,
35    coffee_name VARCHAR(30) NOT NULL,
36    price_per_pound NUMERIC(5,2) NOT NULL,
37    FOREIGN KEY (shop_id) REFERENCES coffee_shop(shop_id),
38    FOREIGN KEY (supplier_id) REFERENCES supplier(supplier_id)
39  );
```

```sql
1  SELECT *
2  FROM coffee;
```

Build Schema Edit Fullscreen Browser [;]   Run SQL ▼ Edit Fullscreen [;]

coffee_id	shop_id	supplier_id	coffee_name	price_per_pound
1	2	3	Bitter Adrenaline	2.35
2	3	1	Classic Dark Roast	10.13
3	1	2	Fresh American Roast	20.46

✔ Record Count: 3; Execution Time: 4ms   + View Execution Plan   → link

CREATE TABLE coffee (

 coffee_id INT PRIMARY KEY AUTO_INCREMENT,

 shop_id INT,

 supplier_id INT,

 coffee_name VARCHAR(30) NOT NULL,

 price_per_pound NUMERIC(5,2) NOT NULL,

 FOREIGN KEY (shop_id) REFERENCES coffee_shop(shop_id),

 FOREIGN KEY (supplier_id) REFERENCES supplier(supplier_id)

);

Insert Data

```
1  CREATE TABLE coffee_shop (
2      shop_id INT PRIMARY KEY AUTO_INCREMENT,
3      shop_name VARCHAR(50) NOT NULL,
4      city VARCHAR(50) NOT NULL,
5      state CHAR(2) NOT NULL
6  );
7
8
9
10
```

```
1  SELECT *
2  FROM coffee_shop;
```

Build Schema ⬇ Edit Fullscreen ↗ Browser ⬆ [;] ▾

Run SQL ▶ ▾ Edit Fullscreen ↗ [;] ▾

shop_id	shop_name	city	state
1	Kahvi	Los Angeles	CA
2	Koffie	Austin	TX
3	Kafve	Chicago	IL

✔ Record Count: 3; Execution Time: 2ms   ✛ View Execution Plan   → link

INSERT INTO coffee_shop (shop_name, city, state)

VALUES ('Kahvi', 'Los Angeles', 'CA'),

('Koffie', 'Austin', 'TX'),

('Kafve', 'Chicago', 'IL');

```
11 CREATE TABLE employee (
12   employee_id INT PRIMARY KEY AUTO_INCREMENT,
13   first_name VARCHAR(30) NOT NULL,
14   last_name VARCHAR(30) NOT NULL,
15   hire_date DATE NOT NULL,
16   job_title VARCHAR(30) NOT NULL,
17   shop_id INT,
18   FOREIGN KEY (shop_id) REFERENCES coffee_shop(shop_id)
19 );
```

```
1 SELECT *
2 FROM employee;
```

Build Schema ⬇   Edit Fullscreen ⤢   Browser ⬆   [;] ▾   Run SQL ▶   ▾   Edit Fullscreen ⤢   [;] ▾

employee_id	first_name	last_name	hire_date	job_title	shop_id
1	Jane	Siemens	2012-01-23	barista	1
2	Erin	Wee	2013-04-05	cashier	1
3	Afsoun	Hanifi	2013-07-01	barista	2

✔ Record Count: 3; Execution Time: 2ms   + View Execution Plan   ↗ link

INSERT INTO employee (first_name, last_name, hire_date, job_title, shop_id)

 VALUES ('Jane', 'Siemens', '2012-1-23', 'barista', 1),

     ('Erin', 'Wee', '2013-4-5', 'cashier', 1),

     ('Afsoun', 'Hanifi', '2013-7-1', 'barista', 2);

```
21
22  CREATE TABLE supplier (
23    supplier_id INT PRIMARY KEY AUTO_INCREMENT,
24    company_name VARCHAR(50) NOT NULL,
25    country VARCHAR(30) NOT NULL,
26    sales_contact_name VARCHAR(60) NOT NULL,
27    email VARCHAR(50) NOT NULL
28  );
29
30
```

```
1  SELECT *
2  FROM supplier;
```

Build Schema ⬆   Edit Fullscreen ✎   Browser ⬒   [;] ▾

Run SQL ▶ ▾   Edit Fullscreen ✎   [;] ▾

supplier_id	company_name	country	sales_contact_name	email
1	Coffee Supply Co	US	Mike Hamilton	mhamilton1@coffeesupplyco.com
2	Death by Coffee	US	Leslie Chavez	lchavez@deathbycoffee.com
3	Kickstart Coffee	UK	Reginald Northumberland	regland@kickstartcoffee.com

✔ Record Count: 3; Execution Time: 2ms   + View Execution Plan   → link

INSERT INTO supplier (company_name, country, sales_contact_name, email)

 VALUES ('Coffee Supply Co', 'US', 'Mike Hamilton', 'mhamilton1@coffeesupplyco.com'),

      ('Death by Coffee', 'US', 'Leslie Chavez', 'lchavez@deathbycoffee.com'),

      ('Kickstart Coffee', 'UK', 'Reginald Northumberland', 'regland@kickstartcoffee.com');

```
31  CREATE TABLE coffee (
32    coffee_id INT PRIMARY KEY AUTO_INCREMENT,
33    shop_id INT,
34    supplier_id INT,
35    coffee_name VARCHAR(30) NOT NULL,
36    price_per_pound NUMERIC(5,2) NOT NULL,
37    FOREIGN KEY (shop_id) REFERENCES coffee_shop(shop_id),
38    FOREIGN KEY (supplier_id) REFERENCES supplier(supplier_id)
39  );
40
```

```
1  SELECT *
2  FROM coffee;
```

Build Schema ⬆   Edit Fullscreen ⤢   Browser ⬆   [;] ▾

Run SQL ▶ ▾   Edit Fullscreen ⤢   [;] ▾

coffee_id	shop_id	supplier_id	coffee_name	price_per_pound
1	2	3	Bitter Adrenaline	2.35
2	3	1	Classic Dark Roast	10.13
3	1	2	Fresh American Roast	20.46

✔ Record Count: 3; Execution Time: 4ms   ✛ View Execution Plan   ↗ link

INSERT INTO coffee (shop_id, supplier_id, coffee_name, price_per_pound)

 VALUES (2, 3, 'Bitter Adrenaline', 2.35),

    (3, 1, 'Classic Dark Roast', 10.13),

    (1, 2, 'Fresh American Roast', 20.46);

Create a View


```
58
59
60  CREATE VIEW employee_name AS
61  SELECT CONCAT (first_name, ' ', last_name) AS employee_full_name,
62  CONCAT ('emp', employee_id) AS employee_id,
63  hire_date, job_title, shop_id
64  FROM employee;
65
66
67
```

```
1  SELECT * FROM employee_name;
```

Build Schema ⬇ Edit Fullscreen ⟋ Browser ⬆ [;]▾

Run SQL ▶ ▾ Edit Fullscreen ⟋ [;]▾

employee_full_name	employee_id	hire_date	job_title	shop_id
Jane Siemens	emp1	2012-01-23	barista	1
Erin Wee	emp2	2013-04-05	cashier	1
Afsoun Hanifi	emp3	2013-07-01	barista	2

✔ Record Count: 3; Execution Time: 4ms   + View Execution Plan   → link

CREATE VIEW employee_name AS

SELECT CONCAT (first_name, ' ', last_name) AS employee_full_name, CONCAT ('emp', employee_id) AS employee_id,

hire_date, job_title, shop_id

FROM employee;

Create an Index


```
63
64
65
66
67
68
69  CREATE INDEX coffee_name_idx
70  ON coffee (coffee_name);
71
72
```

```
1  SELECT coffee_name
2  FROM coffee;
```

Build Schema ⬇   Edit Fullscreen ✎   Browser ⬆   [;] ▾

Run SQL ▶ | ▾   Edit Fullscreen ✎   [;] ▾

coffee_name
Bitter Adrenaline
Classic Dark Roast
Fresh American Roast

✔ Record Count: 3; Execution Time: 2ms   ✛ View Execution Plan   ➔ link

CREATE INDEX coffee_name_idx

ON coffee (coffee_name);

EquiJoin

```
63 CREATE VIEW employee_name AS
64 SELECT CONCAT (first_name, ' ', last_name) AS employee_full_name,
65 CONCAT ('emp', employee_id) AS employee_id,
66 hire_date, job_title, shop_id
67 FROM employee;
68
69 CREATE INDEX coffee_name_idx
70 ON coffee (coffee_name);
71
72
```

```
1 SELECT coffee_shop.shop_name, coffee.coffee_name, supplier.company_n
2 FROM coffee_shop
3 JOIN coffee
4 ON coffee_shop.shop_id = coffee.shop_id
5 JOIN supplier
6 ON supplier.supplier_id = coffee.supplier_id;
```

Build Schema | Edit Fullscreen | Browser | [;]

Run SQL ▶ | Edit Fullscreen | [;]

shop_name	coffee_name	company_name
Kahvi	Fresh American Roast	Death by Coffee
Koffie	Bitter Adrenaline	Kickstart Coffee
Kafve	Classic Dark Roast	Coffee Supply Co

✔ Record Count: 3; Execution Time: 13ms   + View Execution Plan   → link

SELECT coffee_shop.shop_name, coffee.coffee_name, supplier.company_name

FROM coffee_shop

JOIN coffee

ON coffee_shop.shop_id = coffee.shop_id

JOIN supplier

ON supplier.supplier_id = coffee.supplier_id;