```
1    -- Drop tables
2    DROP TABLE IF EXISTS employees CASCADE;
3    DROP TABLE IF EXISTS shops CASCADE;
4    DROP TABLE IF EXISTS locations CASCADE;
5    DROP TABLE IF EXISTS suppliers CASCADE;
6
```

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Query Editor   Query History

```
1    -- Create employees table
2    CREATE TABLE employees (
3        employee_id INTEGER PRIMARY KEY,
4        first_name VARCHAR(50),
5        last_name VARCHAR(50),
6        email VARCHAR(50),
7        hire_date DATE,
8        gender VARCHAR(1),
9        salary INTEGER,
10       coffeeshop_id INTEGER
11   )
```

```
12   -- Create shops table
13   CREATE TABLE shops(
14       coffeeshop_id INTEGER PRIMARY KEY,
15       coffeeshop_name VARCHAR(50),
16       city_id INTEGER
17   )
```

ALTER TABLE employees

ADD FOREIGN KEY (coffeeshop_id)

REFERENCES shops (coffeeshop_id)

ON DELETE SET NULL

```sql
18   -- Add foreign key to the employees table
19   ALTER TABLE employees
20   ADD FOREIGN KEY (coffeeshop_id)
21   REFERENCES shops(coffeeshop_id)
22   ON DELETE SET NULL
```

```sql
23   -- Create locations table
24   CREATE TABLE locations(
25       city_id INTEGER PRIMARY KEY,
26       city VARCHAR(50),
27       country VARCHAR(50)
28   )
```

-- Add foreign key to the shops table

ALTER TABLE shops

ADD FOREIGN KEY (city_id)

REFERENCES locations (city_id)

ON DELETE SET NULL

```sql
29   -- Add foreign key to the shops table
30   ALTER TABLE shops
31   ADD FOREIGN KEY (city_id)
32   REFERENCES locations(city_id)
33   ON DELETE SET NULL
```

```sql
-- Create suppliers table
CREATE TABLE suppliers(
    coffeeshop_id INTEGER,
    supplier_name VARCHAR(20),
    PRIMARY KEY (coffeeshop_id, supplier_name),
    FOREIGN KEY (coffeeshop_id) REFERENCES shops(coffeeshop_id)
    ON DELETE CASCADE
)
```

```sql
-- Insert first two entries into employees table
-- Set the coffeeshop_id (FK) to NULL for now as I have not inserted the coffeeshop_id values (PK)
-- into the shops table yet
INSERT INTO employees
VALUES
(501559, 'Carson', 'Mosconi', 'cmosconi0@census.gov', '2015/08/29', 'M', 32973, NULL),
(144108, 'Khalil', 'Corr', 'kcorr1@github.io', '2014/04/23', 'M', 52802, NULL)
-- Insert the first entry into the shops table with coffeeshop_id (PK) = 1
-- set the city_id (FK) to NULL as I have not inserted the city_id values (PK) into
-- the locations table yet
INSERT INTO shops
VALUES
(1, 'Common Grounds', NULL)
```

```sql
-- Now set the coffeeshop_id (FK) for the first two employees to 1
UPDATE employees
SET coffeeshop_id = 1
WHERE employee_id IN (501559, 144108)
-- Insert first entry into the locations table with city_id (PK) = 1
INSERT INTO locations VALUES(1, 'Los Angeles', 'United States')
-- Now I can update the city_id (FK) in the shops table for coffeeshop_id = 1 to 1
UPDATE shops
SET city_id = 1
where coffeeshop_id = 1
```

```sql
26  -- Add column coffee_type to the suppliers table
27  ALTER TABLE suppliers
28  ADD COLUMN coffee_type VARCHAR(50)
29  -- Insert the first two values where coffeeshop_id (PK FK) = 1 into the suppliers table
30  INSERT INTO suppliers VALUES(1, 'Beans and Barley', 'Arabica');
31  INSERT INTO suppliers VALUES(1, 'Cool Beans', 'Robusta');
32  -- NOW I CAN DO THE REST OF THE INSERT STATEMENTS
33
```