BY SETH JOKINEN

Code to Create + Populate Tables

```
CREATE TABLE Coffee_Shop (

  shop_id INT Primary KEY,

  shop_name VARCHAR(50),

  city VARCHAR(50),

  state CHAR(2)

  );


CREATE TABLE Employee (

  employee_id INT PRIMARY KEY AUTO_INCREMENT,

  first_name VARCHAR(30),

  last_name VARCHAR(30),

  hire_date DATE,

  job_title VARCHAR(30),

  shop_id INT,

  FOREIGN KEY (shop_id) REFERENCES Coffee_Shop(shop_id)

);


CREATE TABLE Supplier (

  supplier_id INT PRIMARY KEY,

  company_name VARCHAR(50),

  country VARCHAR(30),

  sales_contact_name VARCHAR(60),

  email VARCHAR(50) NOT NULL

);


CREATE TABLE Coffee (

  coffee_id INT PRIMARY KEY,

  shop_id INT,
```

supplier_id INT,

coffee_name VARCHAR(30),

price_per_pound NUMERIC(5,2),

FOREIGN KEY (shop_id) REFERENCES Coffee_Shop(shop_id)
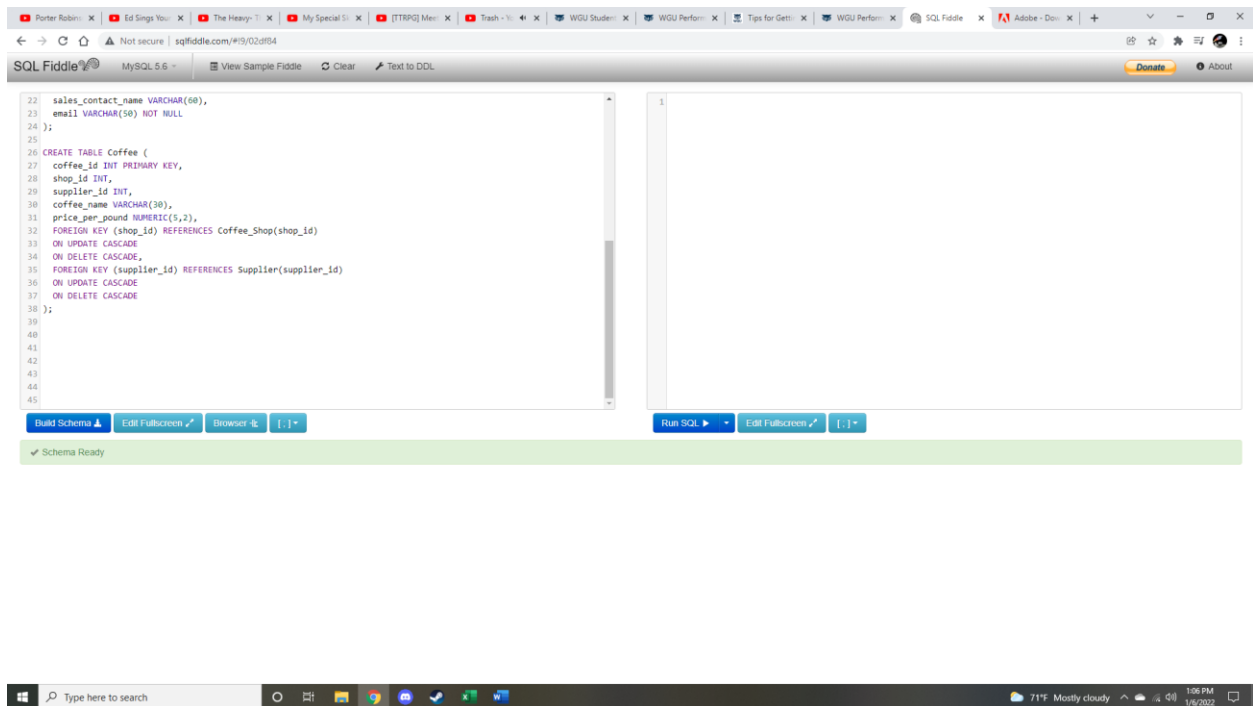
ON UPDATE CASCADE

ON DELETE CASCADE,

FOREIGN KEY (supplier_id) REFERENCES Supplier(supplier_id)

ON UPDATE CASCADE

ON DELETE CASCADE

);

INSERT INTO Coffee_Shop (shop_id, shop_name, city, state)

VALUES (1, 'The Coffee Shop', 'That City', 'ID'),

    (2, 'The Propane Shop', 'Arlen', 'TX'),
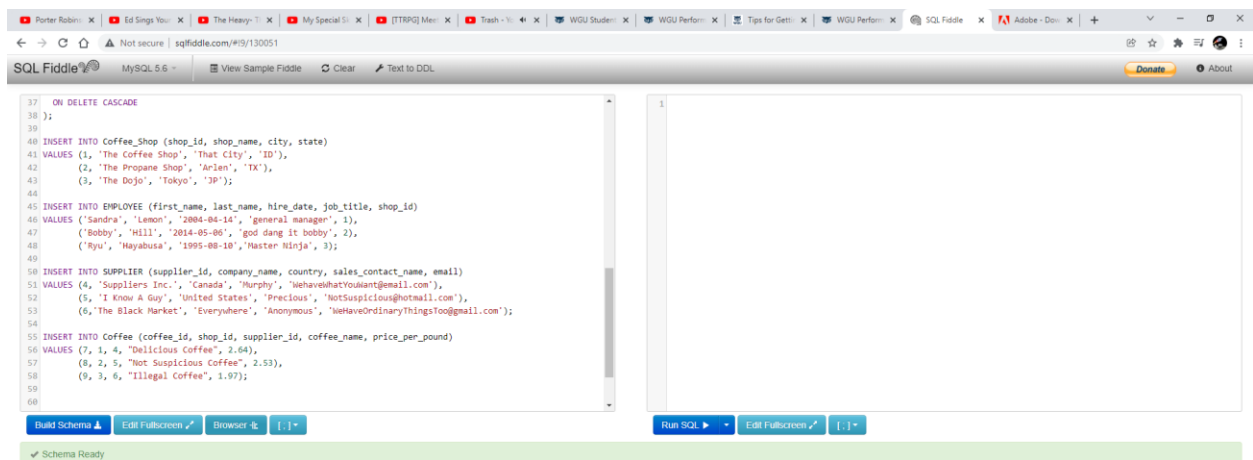
    (3, 'The Dojo', 'Tokyo', 'JP');

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

VALUES ('Sandra', 'Lemon', '2004-04-14', 'general manager', 1),

('Bobby', 'Hill', '2014-05-06', 'god dang it bobby', 2),

('Ryu', 'Hayabusa', '1995-08-10','Master Ninja', 3);

INSERT INTO SUPPLIER (supplier_id, company_name, country, sales_contact_name, email)

VALUES (4, 'Suppliers Inc.', 'Canada', 'Murphy', 'WehaveWhatYouWant@email.com'),

(5, 'I Know A Guy', 'United States', 'Precious', 'NotSuspicious@hotmail.com'),

(6,'The Black Market', 'Everywhere', 'Anonymous', 'WeHaveOrdinaryThingsToo@gmail.com');

INSERT INTO Coffee (coffee_id, shop_id, supplier_id, coffee_name, price_per_pound)

VALUES (7, 1, 4, "Delicious Coffee", 2.64),

(8, 2, 5, "Not Suspicious Coffee", 2.53),

(9, 3, 6, "Illegal Coffee", 1.97);

SELECT QUERIES:

SELECT *

FROM Employee;

SELECT *

FROM Coffee_Shop;
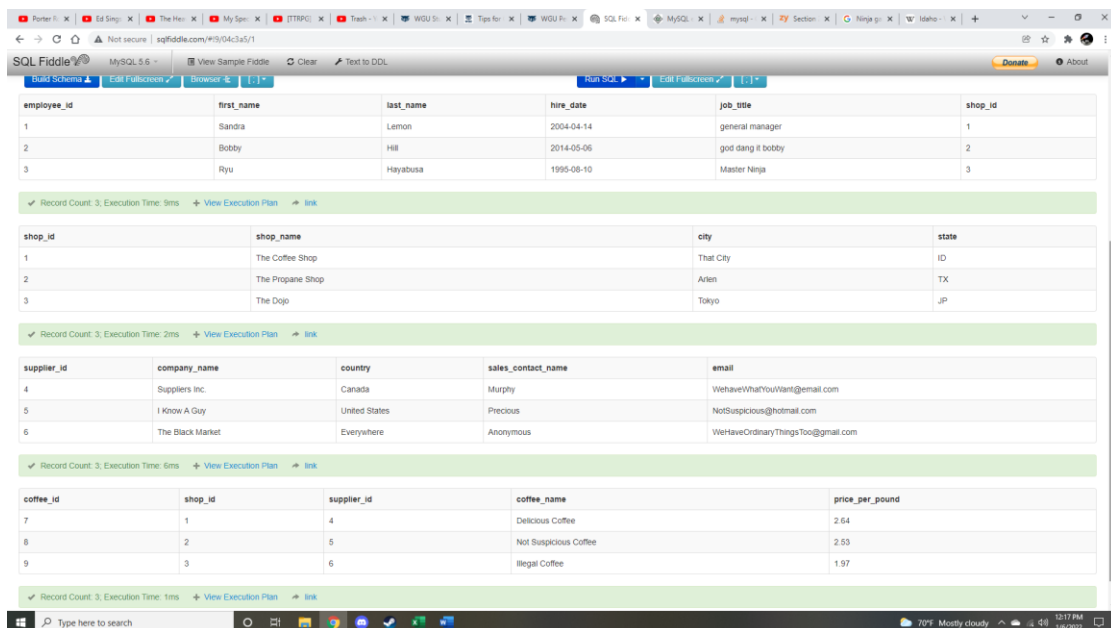
SELECT *

FROM Supplier;

SELECT *

FROM Coffee;

(You can zoom in on this with CTRL + Mouse wheel)

employee_id	first_name	last_name	hire_date	job_title	shop_id
1	Sandra	Lemon	2004-04-14	general manager	1
2	Bobby	Hill	2014-05-06	god dang it bobby	2
3	Ryu	Hayabusa	1995-08-10	Master Ninja	3

Record Count: 3; Execution Time: 9ms   + View Execution Plan   → link

shop_id	shop_name	city	state
1	The Coffee Shop	That City	ID
2	The Propane Shop	Arlen	TX
3	The Dojo	Tokyo	JP

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

supplier_id	company_name	country	sales_contact_name	email
4	Suppliers Inc.	Canada	Murphy	WeHaveWhatYouWant@email.com
5	I Know A Guy	United States	Precious	NotSuspicious@hotmail.com
6	The Black Market	Everywhere	Anonymous	WeHaveOrdinaryThingsToo@gmail.com

Record Count: 3; Execution Time: 6ms   + View Execution Plan   → link

coffee_id	shop_id	supplier_id	coffee_name	price_per_pound
7	1	4	Delicious Coffee	2.64
8	2	5	Not Suspicious Coffee	2.53
9	3	6	Illegal Coffee	1.97

Record Count: 3; Execution Time: 1ms   + View Execution Plan   → link

CREATE VIEW:

CREATING + SHOWING INDEX

SFW Queries:

Complex Query:


```
11   last_name VARCHAR(30),
12   hire_date DATE,
13   job_title VARCHAR(30),
14   shop_id INT,
15   FOREIGN KEY (shop_id) REFERENCES Coffee_Shop(shop_id)
16 );
17
18 CREATE TABLE Supplier (
19   supplier_id INT PRIMARY KEY,
20   company_name VARCHAR(50),
21   country VARCHAR(30),
22   sales_contact_name VARCHAR(60),
23   email VARCHAR(50) NOT NULL
24 );
25
26 CREATE TABLE Coffee (
27   coffee_id INT PRIMARY KEY,
28   shop_id INT,
29   supplier_id INT,
30   coffee_name VARCHAR(30),
31   price_per_pound NUMERIC(5,2),
32   FOREIGN KEY (shop_id) REFERENCES Coffee_Shop(shop_id)
33   ON UPDATE CASCADE
34   ON DELETE CASCADE,
```

```
1 SELECT shop_name, CONCAT(first_name, ' ', last_name) AS Employee, coffee_name
2 FROM Coffee_Shop AS C
3 INNER JOIN Employee AS E ON E.shop_id = C.shop_id
4 INNER JOIN Coffee AS Cof ON Cof.shop_id = C.shop_id;
```

shop_name	Employee	coffee_name
The Coffee Shop	Sandra Lemon	Delicious Coffee
The Propane Shop	Bobby Hill	Not Suspicious Coffee
The Dojo	Ryu Hayabusa	Illegal Coffee

Record Count: 3; Execution Time: 6ms   + View Execution Plan   → link

Did this query solve the problem? If so, consider donating $5 to help make sure SQL Fiddle will be here next time you need help with a database problem. Thanks!