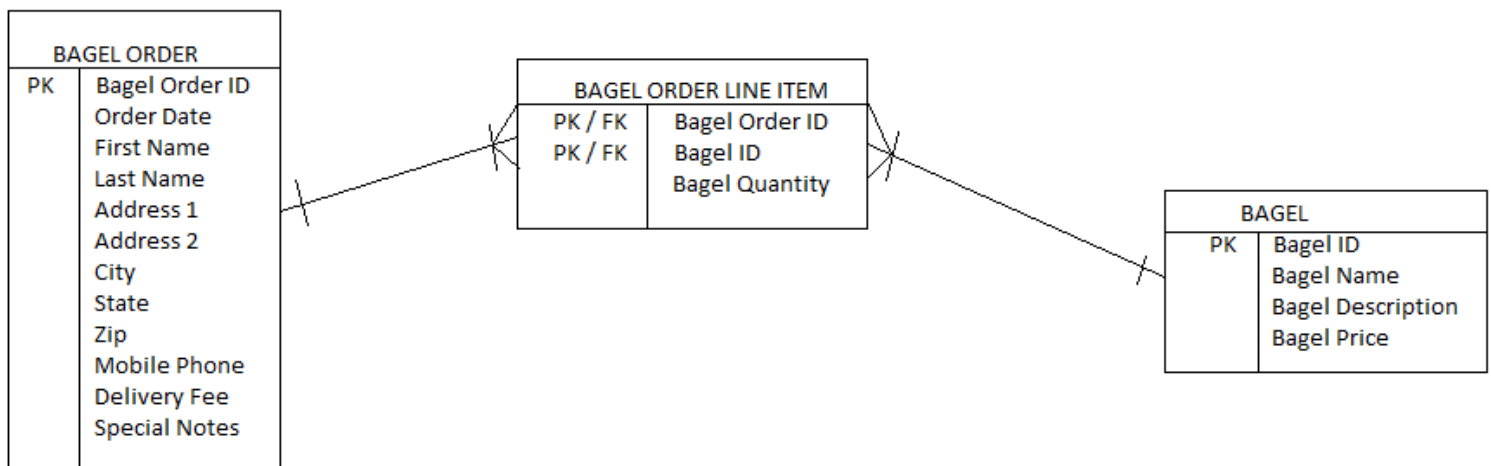


Connor Weldy
Student ID 001106451
C170 VHT2 Task 1
30 December 2021

Part A

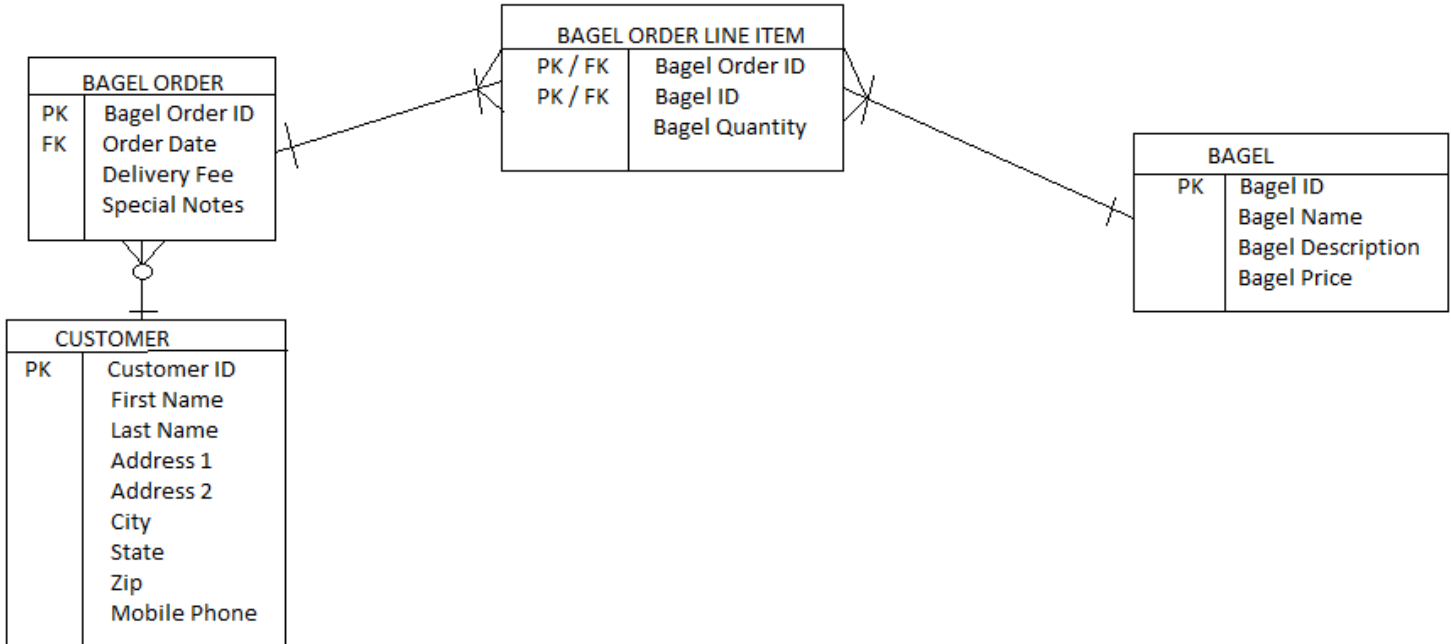
1) Moving data from 1NF to 2NF

In first normal form all of the attributes to the Bagel Order are in a single table with no repeating groups. Moving the attributes into Second Normal Form requires that all of the attributes of the primary key are functionally dependent on it. This means for example, with the Bagel ID being a Primary key must have the following attributes depending on that bagel ID. Another example is with the Bagel Quantity of each Line Item, being functionally dependent on what kind of bagel it is (Bagel ID) and the order it belongs to (Bagel Order ID). I determined the cardinality of the relationships of the tables by understanding how each order is designed. Each Bagel order that a customer places can have multiple bagels on it (Bagel Order Line Item) but the line item must belong to one bagel order, making this relationship 1:M (Bagel Order:Line Item). Each Line Item can have only one type of bagel on it, but each type of bagel can be a part of multiple orders, making that relationship a M:1 (Line Item:Bagel).

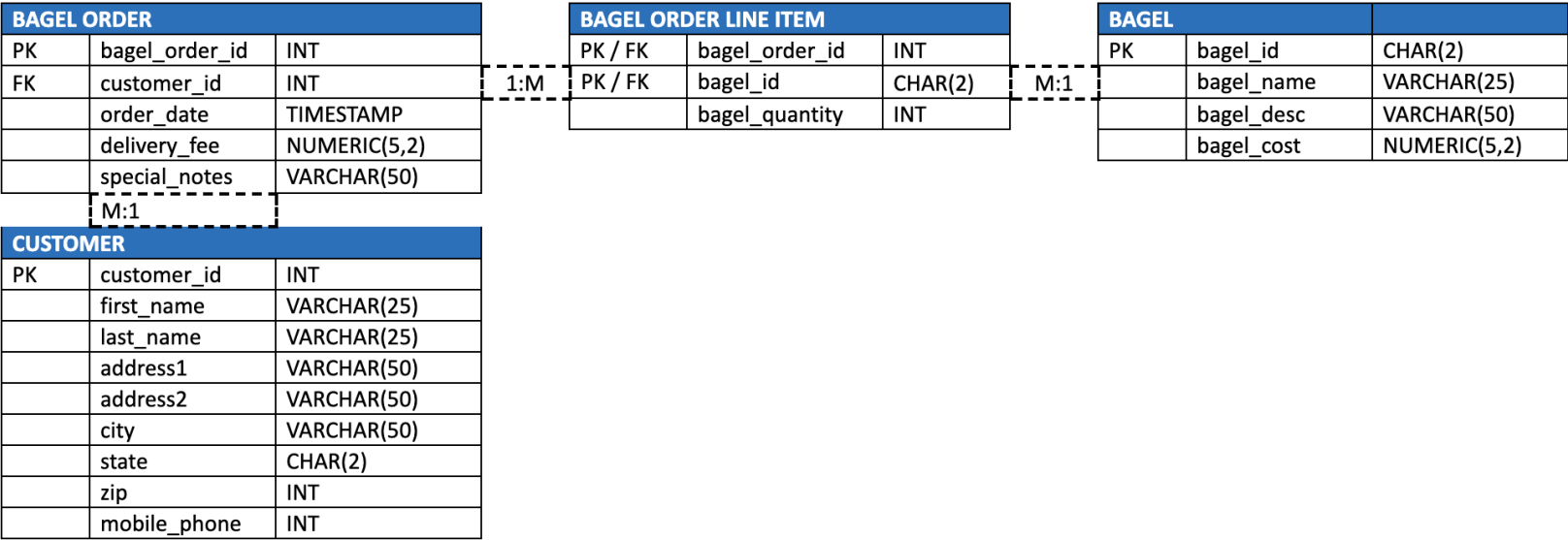


2) Moving data from 2NF to 3NF

In order to move the data into the third normal form, I looked for what data could be repeated within each table and found that within the Bagel Order, there could be a repeating customer. I created a new table because of this so there is no repeating data within the tables. I determined the cardinality of the relationships of the tables by reviewing the design of the order form once more. With the new table being a customer, I determined that each customer can have many bagel orders but each bagel order must belong to one customer, thus being a M:1 (Bagel Order:Customer) relationship. Every other table is the same as before, with each bagel order allowing multiple line items and each line item can only have one type of bagel.



3) Final Physical Database Blueprint



Part B

1) Create Tables

```
CREATE TABLE IF NOT EXISTS SUPPLIER      (  
    supplier_id INTEGER,  
    company_name VARCHAR(50),  
    country VARCHAR(30),  
    sales_contact_name VARCHAR(60),  
    email VARCHAR(50) NOT NULL,  
    PRIMARY KEY(supplier_id)  
);
```

```
CREATE TABLE IF NOT EXISTS COFFEE_SHOP(  
    shop_id INTEGER,  
    shop_name VARCHAR(50),  
    city VARCHAR(50),  
    state CHAR(2),  
    PRIMARY KEY(shop_id)  
);
```

```
CREATE TABLE IF NOT EXISTS EMPLOYEE      (  
    employee_id INTEGER,  
    first_name VARCHAR(30),  
    last_name VARCHAR(30),  
    hire_date DATE,  
    job_title VARCHAR(30),  
    shop_id INTEGER,  
    PRIMARY KEY (employee_id),  
    FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id)  
);
```

```
CREATE TABLE IF NOT EXISTS COFFEE        (  
    coffee_id INTEGER,  
    shop_id INTEGER,  
    supplier_id INTEGER,  
    coffee_name VARCHAR(30),  
    price_per_pound NUMERIC(5,2),  
    PRIMARY KEY(coffee_id),  
    FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id),  
    FOREIGN KEY(supplier_id) REFERENCES SUPPLIER(supplier_id)  
);
```

```
3  company_name VARCHAR(50),
4  country VARCHAR(30),
5  sales_contact_name VARCHAR(60),
6  email VARCHAR(50) NOT NULL,
7  PRIMARY KEY(supplier_id)
8 );
9
10 CREATE TABLE IF NOT EXISTS COFFEE_SHOP (
11     shop_id INTEGER,
12     shop_name VARCHAR(50),
13     city VARCHAR(50),
14     state CHAR(2),
15     PRIMARY KEY(shop_id)
16 );
17
18 CREATE TABLE IF NOT EXISTS EMPLOYEE (
19     employee_id INTEGER,
20     first_name VARCHAR(30),
21     last_name VARCHAR(30),
22     hire_date DATE,
23     job_title VARCHAR(30),
24     shop_id INTEGER,
25     PRIMARY KEY (employee_id),
26     FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id)
27 );
28
29 CREATE TABLE IF NOT EXISTS COFFEE (
30     coffee_id INTEGER,
31     shop_id INTEGER,
32     supplier_id INTEGER,
33     coffee_name VARCHAR(30),
34     price_per_pound NUMERIC(5,2),
35     PRIMARY KEY(coffee_id),
36     FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id),
37     FOREIGN KEY(supplier_id) REFERENCES SUPPLIER(supplier_id)
38 );
```

Build Schema

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[:]

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2) Insert Statements

```
CREATE TABLE IF NOT EXISTS SUPPLIER (
    supplier_id INTEGER,
    company_name VARCHAR(50),
    country VARCHAR(30),
    sales_contact_name VARCHAR(60),
    email VARCHAR(50) NOT NULL,
    PRIMARY KEY(supplier_id)
);
```

```
CREATE TABLE IF NOT EXISTS COFFEE_SHOP (
    shop_id INTEGER,
    shop_name VARCHAR(50),
    city VARCHAR(50),
    state CHAR(2),
    PRIMARY KEY(shop_id)
);
```

```
CREATE TABLE IF NOT EXISTS EMPLOYEE (
    employee_id INTEGER,
    first_name VARCHAR(30),
    last_name VARCHAR(30),
    hire_date DATE,
    job_title VARCHAR(30),
    shop_id INTEGER,
    PRIMARY KEY (employee_id),
    FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id)
);
```

```
CREATE TABLE IF NOT EXISTS COFFEE (
    coffee_id INTEGER,
    shop_id INTEGER,
    supplier_id INTEGER,
    coffee_name VARCHAR(30),
    price_per_pound NUMERIC(5,2),
    PRIMARY KEY(coffee_id),
    FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id),
    FOREIGN KEY(supplier_id) REFERENCES SUPPLIER(supplier_id)
);
```

```
INSERT INTO SUPPLIER(supplier_id, company_name, country, sales_contact_name, email) VALUES
(1001, 'Big Roast Farms', 'United States', 'Tyler Marshall', 'tmarshall@bigroast.com'),
(1002, 'Mountain Coffee Co.', 'Colombia', 'Joshua Hellard', 'jhellard@mountaincoffee.com'),
(1003, 'Main Street Beans', 'United States', 'Kyle Kanwisher', 'kkanwisher@msbeans.com');
```

```
INSERT INTO COFFEE_SHOP(shop_id, shop_name, city, state) VALUES
(0001, 'Starbucks Coffee Co.', 'Jacksonville', 'FL'),
(0002, 'Deathwish Coffee Co.', 'Salt Lake City', 'UT'),
(0003, 'Black Rifle Coffee Co.', 'Indianapolis', 'IN');
```

```
INSERT INTO EMPLOYEE(employee_id, first_name, last_name, hire_date, job_title, shop_id) VALUES
(2001, 'Franco', 'Brino', 20190406, 'Barista', 0001),
(2002, 'Brandon', 'Bradlee', 20200811, 'Manager', 0001),
(2003, 'Connor', 'Weldy', 20211210, 'Janitor', 0003),
(2004, 'George', 'Washington', 20070909, 'Barista', 0002);
```

```
INSERT INTO COFFEE(coffee_id, shop_id, supplier_id, coffee_name, price_per_pound) VALUES
(3001, 0001, 1003, 'Dark Alley Roast', 8.99),
(3002, 0001, 1002, 'Yosemite Roast', 9.99),
(3003, 0002, 1002, 'Applilations Dark', 7.99),
(3004, 0002, 1001, 'Country Field', 4.99),
(3005, 0003, 1001, 'Redneck Roast', 6.98),
(3006, 0003, 1003, '2nd Street Roast', 7.99);
```

```
27 );
28
29 CREATE TABLE IF NOT EXISTS COFFEE (
30     coffee_id INTEGER,
31     shop_id INTEGER,
32     supplier_id INTEGER,
33     coffee_name VARCHAR(30),
34     price_per_pound NUMERIC(5,2),
35     PRIMARY KEY(coffee_id),
36     FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id),
37     FOREIGN KEY(supplier_id) REFERENCES SUPPLIER(supplier_id)
38 );
39
40 INSERT INTO SUPPLIER(supplier_id, company_name, country, sales_contact_name, email) VALUES
41     (1001, 'Big Roast Farms', 'United States', 'Tyler Marshall', 'tmarshall@bigroast.com'),
42     (1002, 'Mountain Coffee Co.', 'Colombia', 'Joshua Hellard', 'jhellard@mountaincoffee.com'),
43     (1003, 'Main Street Beans', 'United States', 'Kyle Kanwisher', 'kkanwisher@msbeans.com');
44
45 INSERT INTO COFFEE_SHOP(shop_id, shop_name, city, state) VALUES
46     (0001, 'Starbucks Coffee Co.', 'Jacksonville', 'FL'),
47     (0002, 'Deathwish Coffee Co.', 'Salt Lake City', 'UT'),
48     (0003, 'Black Rifle Coffee Co.', 'Indianapolis', 'IN');
49
50 INSERT INTO EMPLOYEE(employee_id, first_name, last_name, hire_date, job_title, shop_id) VALUES
51     (2001, 'Franco', 'Brino', 20190406, 'Barista', 0001),
52     (2002, 'Brandon', 'Bradlee', 20200811, 'Manager', 0001),
53     (2003, 'Connor', 'Weldy', 20211210, 'Janitor', 0003),
54     (2004, 'George', 'Washington', 20070909, 'Barista', 0002);
55
56 INSERT INTO COFFEE(coffee_id, shop_id, supplier_id, coffee_name, price_per_pound) VALUES
57     (3001, 0001, 1003, 'Dark Alley Roast', 8.99),
58     (3002, 0001, 1002, 'Yosemite Roast', 9.99),
59     (3003, 0002, 1002, 'Applilations Dark', 7.99),
60     (3004, 0002, 1001, 'Country Field', 4.99),
61     (3005, 0003, 1001, 'Redneck Roast', 6.98),
62     (3006, 0003, 1003, '2nd Street Roast', 7.99);
```

Build Schema

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[:]

✔ Schema Ready

3) View

```
CREATE TABLE IF NOT EXISTS SUPPLIER (
    supplier_id INTEGER,
    company_name VARCHAR(50),
    country VARCHAR(30),
    sales_contact_name VARCHAR(60),
    email VARCHAR(50) NOT NULL,
    PRIMARY KEY(supplier_id)
);
```

```
CREATE TABLE IF NOT EXISTS COFFEE_SHOP (
    shop_id INTEGER,
    shop_name VARCHAR(50),
    city VARCHAR(50),
    state CHAR(2),
    PRIMARY KEY(shop_id)
);
```

```
CREATE TABLE IF NOT EXISTS EMPLOYEE (
    employee_id INTEGER,
    first_name VARCHAR(30),
    last_name VARCHAR(30),
    hire_date DATE,
    job_title VARCHAR(30),
    shop_id INTEGER,
    PRIMARY KEY (employee_id),
    FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id)
);
```

```
CREATE TABLE IF NOT EXISTS COFFEE (
    coffee_id INTEGER,
    shop_id INTEGER,
    supplier_id INTEGER,
    coffee_name VARCHAR(30),
    price_per_pound NUMERIC(5,2),
    PRIMARY KEY(coffee_id),
    FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id),
    FOREIGN KEY(supplier_id) REFERENCES SUPPLIER(supplier_id)
);
```

```
INSERT INTO SUPPLIER(supplier_id, company_name, country, sales_contact_name, email) VALUES
(1001, 'Big Roast Farms', 'United States', 'Tyler Marshall', 'tmarshall@bigroast.com'),
(1002, 'Mountain Coffee Co.', 'Colombia', 'Joshua Hellard', 'jhellard@mountaincoffee.com'),
(1003, 'Main Street Beans', 'United States', 'Kyle Kanwisher', 'kkanwisher@msbeans.com');
```

```
INSERT INTO COFFEE_SHOP(shop_id, shop_name, city, state) VALUES
(0001, 'Starbucks Coffee Co.', 'Jacksonville', 'FL'),
(0002, 'Deathwish Coffee Co.', 'Salt Lake City', 'UT'),
(0003, 'Black Rifle Coffee Co.', 'Indianapolis', 'IN');
```

```
INSERT INTO EMPLOYEE(employee_id, first_name, last_name, hire_date, job_title, shop_id) VALUES
(2001, 'Franco', 'Brino', 20190406, 'Barista', 0001),
(2002, 'Brandon', 'Bradlee', 20200811, 'Manager', 0001),
(2003, 'Connor', 'Weldy', 20211210, 'Janitor', 0003),
(2004, 'George', 'Washington', 20070909, 'Barista', 0002);
```

```
INSERT INTO COFFEE(coffee_id, shop_id, supplier_id, coffee_name, price_per_pound) VALUES
(3001, 0001, 1003, 'Dark Alley Roast', 8.99),
(3002, 0001, 1002, 'Yosemite Roast', 9.99),
(3003, 0002, 1002, 'Applilations Dark', 7.99),
(3004, 0002, 1001, 'Country Field', 4.99),
(3005, 0003, 1001, 'Redneck Roast', 6.98),
(3006, 0003, 1003, '2nd Street Roast', 7.99);
```

```
CREATE VIEW employee_view AS SELECT
    employee_id,
    CONCAT(first_name, " ", last_name) employee_full_name,
    hire_date,
    job_title,
    shop_id
FROM EMPLOYEE;
```

```

35 PRIMARY KEY(coffee_id),
36 FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id),
37 FOREIGN KEY(supplier_id) REFERENCES SUPPLIER(supplier_id)
38 );
39
40 INSERT INTO SUPPLIER(supplier_id, company_name, country, sales_contact_name, email) VALUES
41 (1001, 'Big Roast Farms', 'United States', 'Tyler Marshall', 'tmarshall@bigroast.com'),
42 (1002, 'Mountain Coffee Co.', 'Colombia', 'Joshua Hellard', 'jhellard@mountaincoffee.com'),
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47 (0002, 'Deathwish Coffee Co.', 'Salt Lake City', 'UT'),
48 (0003, 'Black Rifle Coffee Co.', 'Indianapolis', 'IN');
49
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51 (2001, 'Franco', 'Brino', 20190406, 'Barista', 0001),
52 (2002, 'Brandon', 'Bradlee', 20200811, 'Manager', 0001),
53 (2003, 'Connor', 'Weldy', 20211210, 'Janitor', 0003),
54 (2004, 'George', 'Washington', 20070909, 'Barista', 0002);
55
56 INSERT INTO COFFEE(coffee_id, shop_id, supplier_id, coffee_name, price_per_pound) VALUES
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58 (3002, 0001, 1002, 'Yosemite Roast', 9.99),
59 (3003, 0002, 1002, 'Applilations Dark', 7.99),
60 (3004, 0002, 1001, 'Country Field', 4.99),
61 (3005, 0003, 1001, 'Redneck Roast', 6.98),
62 (3006, 0003, 1003, '2nd Street Roast', 7.99);
63
64 CREATE VIEW employee_view AS SELECT
65     employee_id,
66     CONCAT(first_name, " ", last_name) employee_full_name,
67     hire_date,
68     job_title,
69     shop_id
70 FROM EMPLOYEE;

```

Build Schema

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4) Index

```
CREATE TABLE IF NOT EXISTS SUPPLIER      (
    supplier_id INTEGER,
    company_name VARCHAR(50),
    country VARCHAR(30),
    sales_contact_name VARCHAR(60),
    email VARCHAR(50) NOT NULL,
    PRIMARY KEY(supplier_id)
);

CREATE TABLE IF NOT EXISTS COFFEE_SHOP(
    shop_id INTEGER,
    shop_name VARCHAR(50),
    city VARCHAR(50),
    state CHAR(2),
    PRIMARY KEY(shop_id)
);

CREATE TABLE IF NOT EXISTS EMPLOYEE      (
    employee_id INTEGER,
    first_name VARCHAR(30),
    last_name VARCHAR(30),
    hire_date DATE,
    job_title VARCHAR(30),
    shop_id INTEGER,
    PRIMARY KEY (employee_id),
    FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id)
);

CREATE TABLE IF NOT EXISTS COFFEE      (
    coffee_id INTEGER,
    shop_id INTEGER,
    supplier_id INTEGER,
    coffee_name VARCHAR(30),
    price_per_pound NUMERIC(5,2),
    PRIMARY KEY(coffee_id),
    FOREIGN KEY(shop_id) REFERENCES COFFEE_SHOP(shop_id),
    FOREIGN KEY(supplier_id) REFERENCES SUPPLIER(supplier_id)
);

INSERT INTO SUPPLIER(supplier_id, company_name, country, sales_contact_name, email)      VALUES
    (1001, 'Big Roast Farms', 'United States', 'Tyler Marshall', 'tmarshall@bigroast.com'),
    (1002, 'Mountain Coffee Co.', 'Colombia', 'Joshua Hellard', 'jhellard@mountaincoffee.com'),
    (1003, 'Main Street Beans', 'United States', 'Kyle Kanwisher', 'kkanwisher@msbeans.com');

INSERT INTO COFFEE_SHOP(shop_id, shop_name, city, state)      VALUES
    (0001, 'Starbucks Coffee Co.', 'Jacksonville', 'FL'),
    (0002, 'Deathwish Coffee Co.', 'Salt Lake City', 'UT'),
    (0003, 'Black Rifle Coffee Co.', 'Indianapolis', 'IN');

INSERT INTO EMPLOYEE(employee_id, first_name, last_name, hire_date, job_title, shop_id)      VALUES
    (2001, 'Franco', 'Brino', 20190406, 'Barista', 0001),
    (2002, 'Brandon', 'Bradlee', 20200811, 'Manager', 0001),
    (2003, 'Connor', 'Weldy', 20211210, 'Janitor', 0003),
    (2004, 'George', 'Washington', 20070909, 'Barista', 0002);

INSERT INTO COFFEE(coffee_id, shop_id, supplier_id, coffee_name, price_per_pound)      VALUES
    (3001, 0001, 1003, 'Dark Alley Roast', 8.99),
    (3002, 0001, 1002, 'Yosemite Roast', 9.99),
    (3003, 0002, 1002, 'Applilations Dark', 7.99),
    (3004, 0002, 1001, 'Country Field', 4.99),
    (3005, 0003, 1001, 'Redneck Roast', 6.98),
    (3006, 0003, 1003, '2nd Street Roast', 7.99);

CREATE VIEW employee_view AS SELECT
    employee_id,
    CONCAT(first_name, " ", last_name)      employee_full_name,
    hire_date,
    job_title,
    shop_id
FROM EMPLOYEE;

CREATE INDEX coffee_name ON COFFEE(coffee_name);
```

```
37 FOREIGN KEY(supplier_id) REFERENCES SUPPLIER(supplier_id)
38 );
39
40 INSERT INTO SUPPLIER(supplier_id, company_name, country, sales_contact_name, email) VALUES
41 (1001, 'Big Roast Farms', 'United States', 'Tyler Marshall', 'tmarshall@bigroast.com'),
42 (1002, 'Mountain Coffee Co.', 'Colombia', 'Joshua Hellard', 'jhellard@mountaincoffee.com'),
43 (1003, 'Main Street Beans', 'United States', 'Kyle Kanwisher', 'kkanwisher@msbeans.com');
44
45 INSERT INTO COFFEE_SHOP(shop_id, shop_name, city, state) VALUES
46 (0001, 'Starbucks Coffee Co.', 'Jacksonville', 'FL'),
47 (0002, 'Deathwish Coffee Co.', 'Salt Lake City', 'UT'),
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49
50 INSERT INTO EMPLOYEE(employee_id, first_name, last_name, hire_date, job_title, shop_id) VALUES
51 (2001, 'Franco', 'Brino', 20190406, 'Barista', 0001),
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54 (2004, 'George', 'Washington', 20070909, 'Barista', 0002);
55
56 INSERT INTO COFFEE(coffee_id, shop_id, supplier_id, coffee_name, price_per_pound) VALUES
57 (3001, 0001, 1003, 'Dark Alley Roast', 8.99),
58 (3002, 0001, 1002, 'Yosemite Roast', 9.99),
59 (3003, 0002, 1002, 'Applilations Dark', 7.99),
60 (3004, 0002, 1001, 'Country Field', 4.99),
61 (3005, 0003, 1001, 'Redneck Roast', 6.98),
62 (3006, 0003, 1003, '2nd Street Roast', 7.99);
63
64 CREATE VIEW employee_view AS SELECT
65     employee_id,
66     CONCAT(first_name, " ", last_name) employee_full_name,
67     hire_date,
68     job_title,
69     shop_id
70 FROM EMPLOYEE;
71
72 CREATE INDEX coffee_name ON COFFEE(coffee_name);
```

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5) SELECT-FROM-WHERE

SQL FiddleMySQL 5.6View Sample FiddleClearText to DDL

```
37 FOREIGN KEY(supplier_id) REFERENCES SUPPLIER(supplier_id)
38 );
39
40 INSERT INTO SUPPLIER(supplier_id, company_name, country, sales_contact_name, email) VALUES
41 (1001, 'Big Roast Farms', 'United States', 'Tyler Marshall', 'tmarshall@bigroast.com'),
42 (1002, 'Mountain Coffee Co.', 'Colombia', 'Joshua Hellard', 'jhellard@mountaincoffee.com'),
43 (1003, 'Main Street Beans', 'United States', 'Kyle Kanwisher', 'kkanwisher@msbeans.com');
44
45 INSERT INTO COFFEE_SHOP(shop_id, shop_name, city, state) VALUES
46 (0001, 'Starbucks Coffee Co.', 'Jacksonville', 'FL'),
47 (0002, 'Deathwish Coffee Co.', 'Salt Lake City', 'UT'),
48 (0003, 'Black Rifle Coffee Co.', 'Indianapolis', 'IN');
49
50 INSERT INTO EMPLOYEE(employee_id, first_name, last_name, hire_date, job_title, shop_id) VALUES
51 (2001, 'Franco', 'Brino', 20190406, 'Barista', 0001),
52 (2002, 'Brandon', 'Bradlee', 20200811, 'Manager', 0001),
53 (2003, 'Connor', 'Weldy', 20211210, 'Janitor', 0003),
54 (2004, 'George', 'Washington', 20070909, 'Barista', 0002);
55
56 INSERT INTO COFFEE(coffee_id, shop_id, supplier_id, coffee_name, price_per_pound) VALUES
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59 (3003, 0002, 1002, 'Appliations Dark', 7.99),
60 (3004, 0002, 1001, 'Country Field', 4.99),
61 (3005, 0003, 1001, 'Redneck Roast', 6.98),
62 (3006, 0003, 1003, '2nd Street Roast', 7.99);
63
64 CREATE VIEW employee_view AS SELECT
65     employee_id,
66     CONCAT(first_name, " ", last_name) employee_full_name,
67     hire_date,
68     job_title,
69     shop_id
70 FROM EMPLOYEE;
71
72 CREATE INDEX coffee_name ON COFFEE(coffee_name);
```

Build SchemaEdit FullscreenBrowser[.]

1 SELECT coffee_name FROM COFFEE WHERE shop_id = 0001;

Run SQLEdit Fullscreen[.]

coffee_name

Dark Alley Roast

Yosemite Roast

Record Count: 2; Execution Time: 1msView Execution Planlink

6) Join Query

SQL FiddleMySQL 5.6View Sample FiddleClearText to DDL

```
37 FOREIGN KEY(supplier_id) REFERENCES SUPPLIER(supplier_id)
38 );
39
40 INSERT INTO SUPPLIER(supplier_id, company_name, country, sales_contact_name, email) VALUES
41 (1001, 'Big Roast Farms', 'United States', 'Tyler Marshall', 'tmarshall@bigroast.com'),
42 (1002, 'Mountain Coffee Co.', 'Colombia', 'Joshua Hellard', 'jhellard@mountaincoffee.com'),
43 (1003, 'Main Street Beans', 'United States', 'Kyle Kanwisher', 'kkanwisher@msbeans.com');
44
45 INSERT INTO COFFEE_SHOP(shop_id, shop_name, city, state) VALUES
46 (0001, 'Starbucks Coffee Co.', 'Jacksonville', 'FL'),
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49
50 INSERT INTO EMPLOYEE(employee_id, first_name, last_name, hire_date, job_title, shop_id) VALUES
51 (2001, 'Franco', 'Brino', 20190406, 'Barista', 0001),
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54 (2004, 'George', 'Washington', 20070909, 'Barista', 0002);
55
56 INSERT INTO COFFEE(coffee_id, shop_id, supplier_id, coffee_name, price_per_pound) VALUES
57 (3001, 0001, 1003, 'Dark Alley Roast', 8.99),
58 (3002, 0001, 1002, 'Yosemite Roast', 9.99),
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61 (3005, 0003, 1001, 'Redneck Roast', 6.98),
62 (3006, 0003, 1003, '2nd Street Roast', 7.99);
63
64 CREATE VIEW employee_view AS SELECT
65 employee_id,
66 CONCAT(first_name, " ", last_name) employee_full_name,
67 hire_date,
68 job_title,
69 shop_id
70 FROM EMPLOYEE;
71
72 CREATE INDEX coffee_name ON COFFEE(coffee_name);
```

```
1 SELECT e.first_name, e.last_name, e.job_title, s.shop_name, c.coffee_name
2 FROM EMPLOYEE e
3 LEFT JOIN COFFEE_SHOP s
4 ON e.shop_id = s.shop_id
5 LEFT JOIN COFFEE c
6 ON e.shop_id = c.shop_id;
7
```

Build SchemaEdit FullscreenBrowser[.]Run SQLEdit Fullscreen[.]

first_name	last_name	job_title	shop_name	coffee_name
Franco	Brino	Barista	Starbucks Coffee Co.	Dark Alley Roast
Franco	Brino	Barista	Starbucks Coffee Co.	Yosemite Roast
Brandon	Bradlee	Manager	Starbucks Coffee Co.	Dark Alley Roast
Brandon	Bradlee	Manager	Starbucks Coffee Co.	Yosemite Roast
Connor	Weldy	Janitor	Black Rifle Coffee Co.	Redneck Roast
Connor	Weldy	Janitor	Black Rifle Coffee Co.	2nd Street Roast
George	Washington	Barista	Deathwish Coffee Co.	Applilations Dark
George	Washington	Barista	Deathwish Coffee Co.	Country Field

Record Count: 8; Execution Time: 8msView Execution Planlink