

```
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,  
first_name VARCHAR(30),  
last_name VARCHAR(30),  
hire_date DATE,  
job_title VARCHAR(30),  
shop_id INT  
);
```

```
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)

);

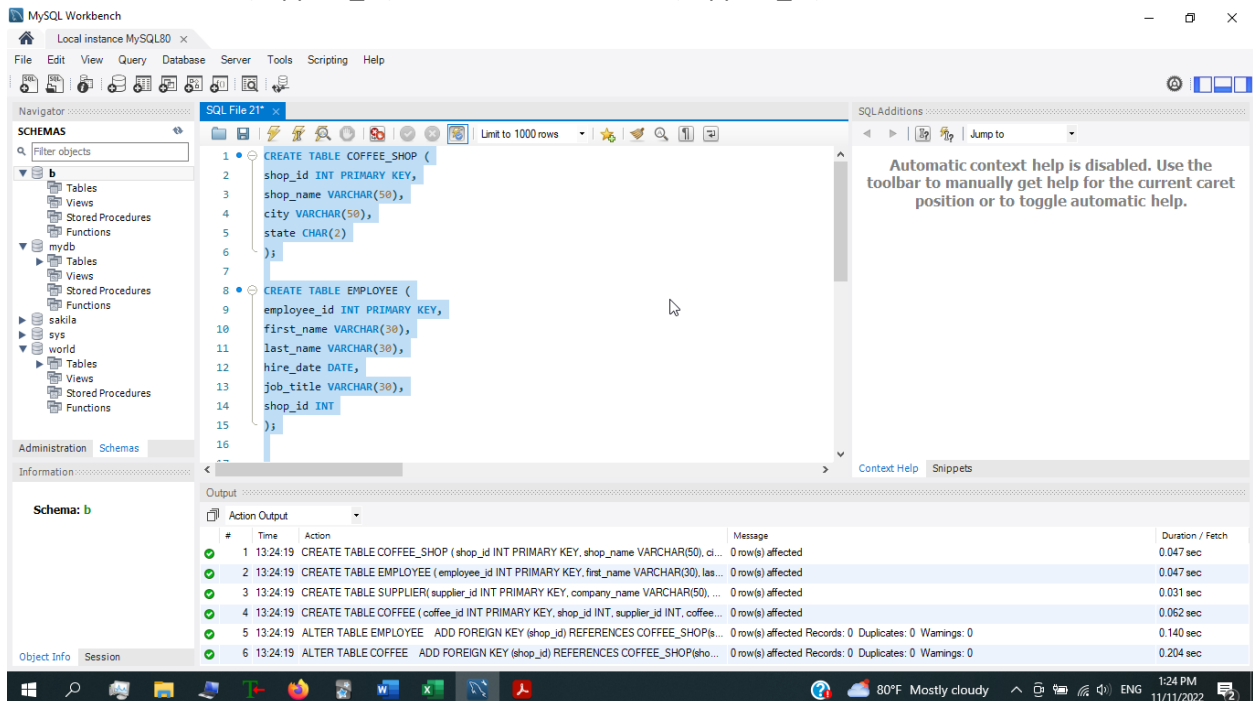
ALTER TABLE EMPLOYEE

ADD FOREIGN KEY (shop\_id) REFERENCES COFFEE\_SHOP(shop\_id);

ALTER TABLE COFFEE

ADD FOREIGN KEY (shop\_id) REFERENCES COFFEE\_SHOP(shop\_id),

ADD FOREIGN KEY (supplier\_id) REFERENCES SUPPLIER(supplier\_id);



INSERT INTO coffee\_shop (shop\_id, shop\_name, city, state) VALUES

(34, 'Big Al Coffee', 'Austin', 'TX'),

(56, 'One sip caffeinated', 'Miami', 'FL'),

(99, 'Old Time Coffee', 'Atlanta', 'GA');

INSERT INTO employee (employee\_id, first\_name, last\_name, hire\_date, job\_title, shop\_id) VALUES

(2345, 'Daniel', 'Barton', '2015-03-22', 'Barista', 34),

(1123, 'Sarah', 'Brown', '2005-10-19', 'Barista', 56),

```
(3321, 'Matthew', 'Jordan', '2019-07-12', 'Barista', 99);
```

```
INSERT INTO supplier VALUES
```

```
(323, 'AMERICAN BEAN', 'AMERICA', 'Larry Miller', 'Larry452@gmail.com'),
```

```
(490, 'SHIN NO EDO MAME', 'JAPAN', 'Shinoske Takanashi', 'Taka292@yahoo.jp'),
```

```
(733, 'Royal Black', 'ENGLAND', 'Andrew Burton', 'Burton99@live.com');
```


```
INSERT INTO coffee (coffee_id, shop_id, supplier_id, coffee_name, price_per_pound) Values
```

```
(1, 34, 323, 'AMERICANO', 7.50),
```

```
(2, 56, 490, 'CAFFÈ LATTE', 3.50),
```

```
(3, 99, 733, 'DOUBLE ESPRESSO', 15);
```

```
45 (3, 'DOUBLE ESPRESSO', 15);
46
47 INSERT INTO coffee_shop VALUES
48 (1, 'Big Al Coffee', 'Austin', 'TX'),
49 (2, 'One sip caffeinated', 'Miami', 'FL'),
50 (3, 'Old Time Coffee', 'Atlanta', 'GA');
51 INSERT INTO employee (employee_id, first_name, last_name, hire_date, job_t
52 (2345, 'Daniel', 'Barton', '2015-03-22', 'Barista'),
53 (1123, 'Sarah', 'Brown', '2005-10-19', 'Barista'),
54 (3321, 'Matthew', 'Jordan', '2019-07-12', 'Barista');
55 INSERT INTO supplier VALUES
```

Build Schema 

Edit Fullscreen 

Browser 

[ : ] 

✓ Schema Ready

```
CREATE VIEW EMPLOYEE2 AS
```

```
SELECT *, concat_ws(' ', first_name, last_name) as "employee_full_name"
```

```
FROM EMPLOYEE;
```

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

Triggers  
supplier  
Columns  
supplier\_id  
company\_name  
country  
sales\_contact  
email  
Indexes  
Foreign Keys  
Triggers  
Views  
employee2  
myview  
Stored Procedures  
Functions  
mydb  
exits

Administration Schemas

Information

View: employee2

Columns:  
employee\_id int  
first\_name var  
last\_name var  
hire\_date dat  
job\_title var  
shop\_id int  
employee\_full\_name var

Object Info Session

SQL File 21\* SQL File 23\* SQL File 22\* employee2 employee2

1 • SELECT \* FROM b.employee2;

Result Grid

employee_id	first_name	last_name	hire_date	job_title	shop_id	employee_full_name
1123	Sarah	Brown	2005-10-19	Barista	1000	Sarah Brown
2345	Daniel	Barton	2015-03-22	Barista	1000	Daniel Barton
3321	Matthew	Jordan	2019-07-12	Barista	1000	Matthew Jordan

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Output

#	Time	Action	Message	Duration / Fetch
10	14:58:45	CREATE VIEW EMPLOYEE2 AS SELECT *, concat_ws(' ', first_name, last_name) as 'em...	0 row(s) affected	0.016 sec
11	14:58:48	Error loading schema content	Error Code: 1356 View 'sakila.customer_list' references invalid table(s) or column(s) or func...	
12	14:58:51	SELECT * FROM b.employee2 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
13	15:00:45	SELECT * FROM b.employee2 LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec

Read Only Context Help Snippets

Create index idx\_coffee\_name

ON coffee (coffee\_name);

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

b  
Tables  
coffee  
Columns  
coffee\_id  
shop\_id  
supplier\_id  
coffee\_name  
price\_per\_p  
Indexes  
Foreign Keys  
Triggers  
coffee\_shop  
employee  
Columns  
employee\_id  
first\_name  
last\_name

Administration Schemas

Information

View: employee2

Columns:  
employee\_id int  
first\_name var  
last\_name var  
hire\_date dat  
job\_title var  
shop\_id int  
employee\_full\_name var

Object Info Session

SQL File 21\* SQL File 23\* SQL File 22\* SQL File 24\*

1 • Create index idx\_coffee\_name  
2 ON coffee (coffee\_name);

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

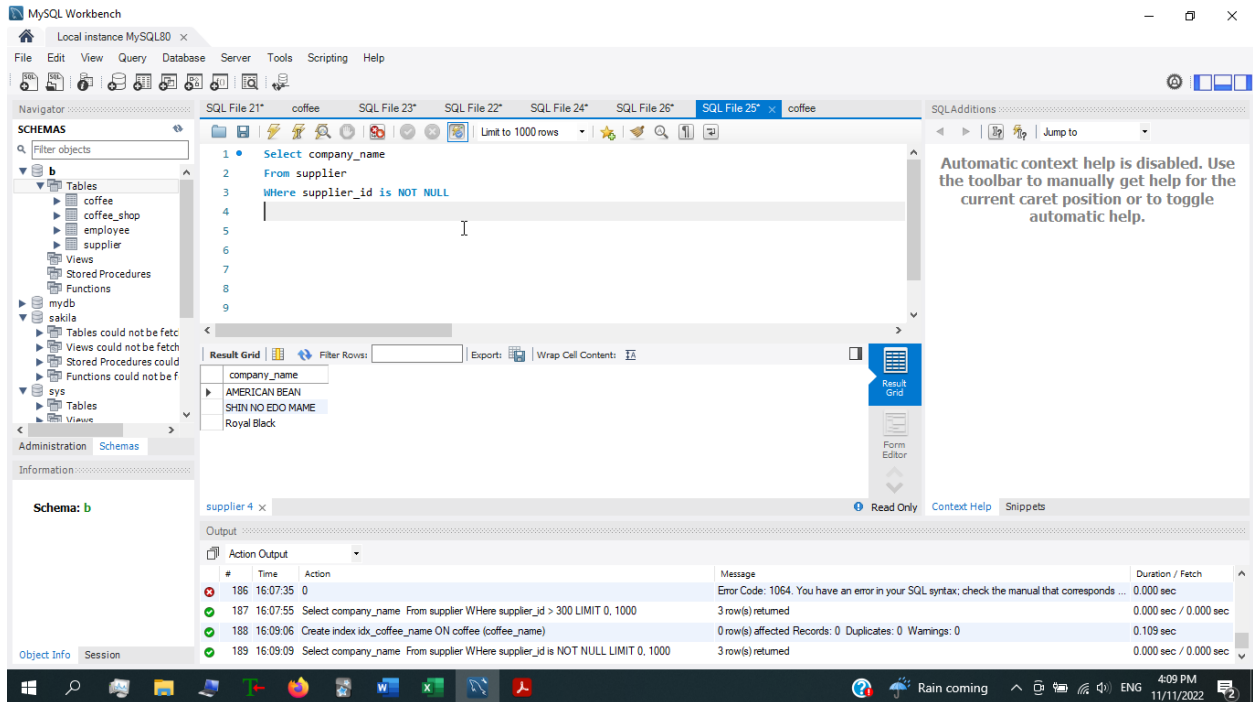
Output

#	Time	Action	Message	Duration / Fetch
1	15:04:56	Create index idx_coffee_name ON coffee (coffee_name)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.172 sec

Select company\_name

From supplier

Where supplier\_id is NOT NULL



SELECT coffee.coffee\_name, coffee.price\_per\_pound, coffee\_shop.shop\_name, coffee.shop\_id,  
coffee\_shop.city, coffee\_shop.state, supplier.supplier\_id, supplier.company\_name, supplier.country,  
supplier.sales\_contact\_name, supplier.email

from coffee\_shop

right JOIN coffee on coffee\_shop.shop\_id = coffee.shop\_id

left join supplier on coffee.supplier\_id = supplier.supplier\_id

order by coffee.price\_per\_pound;

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SQL File 21\* coffee SQL File 23\* SQL File 22\* SQL File 26\* SQL File 25\* SQL File 24\* coffee

Limit to 1000 rows

SQL Additions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

SCHEMAS

Filter objects

- Columns
  - coffee\_id
  - shop\_id
  - supplier\_id
  - coffee\_name
  - price\_per\_pound
- Indexes
- Foreign Keys
- Triggers
- coffee\_shop
  - Columns
    - shop\_id
    - shop\_name
    - city
    - state
  - Indexes
  - Foreign Keys
  - Triggers

Administration Schemas

Information

Table: coffee

Columns:

- coffee\_id int PK
- shop\_id int
- supplier\_id int
- coffee\_name varchar
- price\_per\_pound decimal

Object Info Session

```
1 SELECT coffee.coffee_name, coffee.price_per_pound, coffee_shop.shop_name, coffee_shop.coffee_shop_id, coffee_shop.coffee_id
2 FROM coffee_shop
3 RIGHT JOIN coffee ON coffee_shop.shop_id = coffee.shop_id
4 LEFT JOIN supplier ON coffee.supplier_id = supplier.supplier_id
5 ORDER BY coffee.price_per_pound;
```

Result Grid

coffee_name	price_per_pound	shop_name	shop_id	city	state	supplier_id	company_name	country
CAFFÉ LATTE	3.50	One sip caffeinated	56	Miami	FL	490	SHIN NO EDO MAME	JAPAN
AMERICANO	7.50	Big Al Coffee	34	Austin	TX	323	AMERICAN BEAN	AMERICA
DOUBLE ESPRESSO	15.00	Old Time Coffee	99	Atlanta	GA	733	Royal Black	ENGLAND

Result 29

Output

Action Output

#	Time	Action	Message	Duration / Fetch
218	16:42:37	SELECT coffee shop_id, coffee.coffee_name, coffee price_per_pound, coffee_shop shop_n...	3 row(s) returned	0.000 sec / 0.000 sec
219	16:43:23	SELECT coffee.coffee_name, coffee price_per_pound, coffee_shop shop_name, coffee sho...	3 row(s) returned	0.016 sec / 0.000 sec
220	16:43:41	SELECT coffee.coffee_name, coffee price_per_pound, coffee_shop shop_name, coffee sho...	3 row(s) returned	0.000 sec / 0.000 sec
221	16:43:49	SELECT coffee.coffee_name, coffee price_per_pound, coffee_shop shop_name, coffee sho...	3 row(s) returned	0.000 sec / 0.000 sec

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4:44 PM 11/11/2022