Aaron Ekdahl

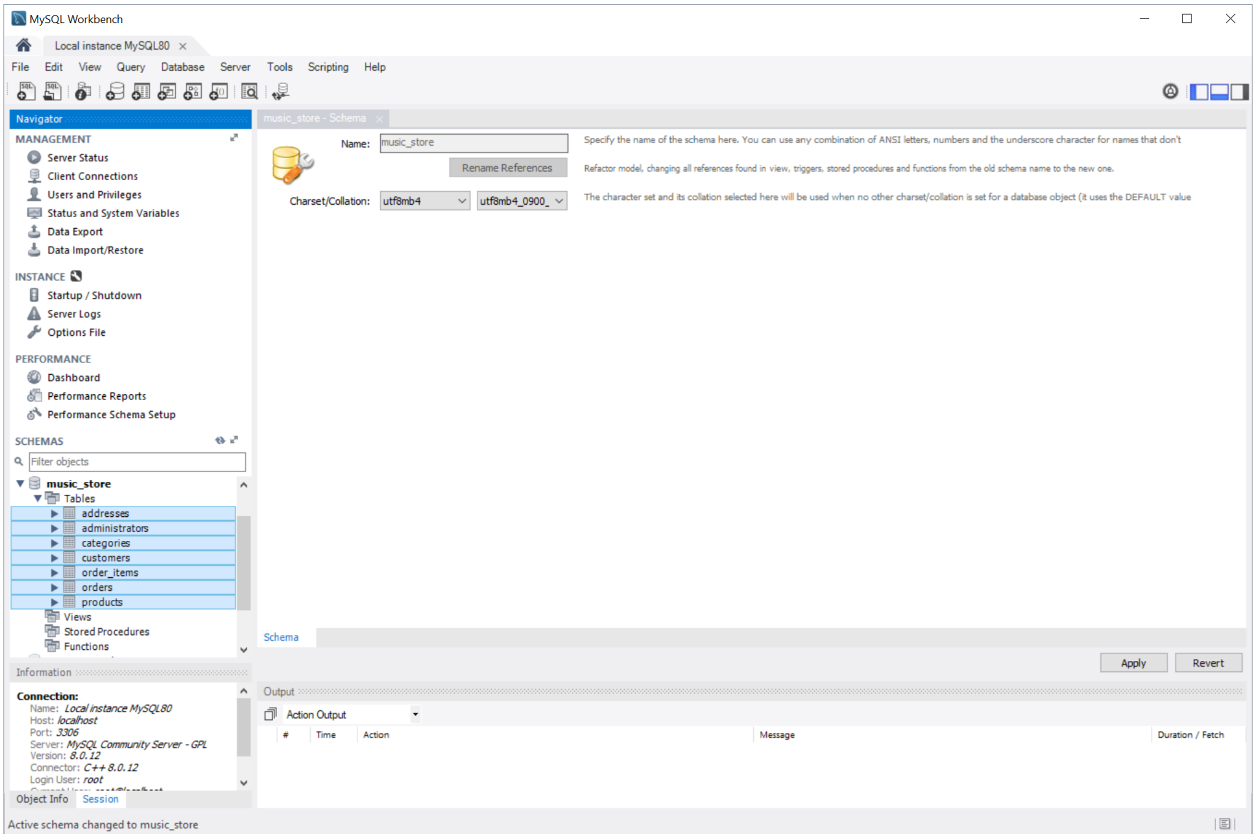
Louis Ho

CIS251

12/5/2018

CIS251 2018 Fall – Final Project: Music Store Database

Final Project Step 1 - Screenshot #1



Name: music_store

Specify the name of the schema here. You can use any combination of ANSI letters, numbers and the underscore character for names that don't

Refactor model, changing all references found in view, triggers, stored procedures and functions from the old schema name to the new one.

Charset/Collation: utf8mb4 utf8mb4_0900_

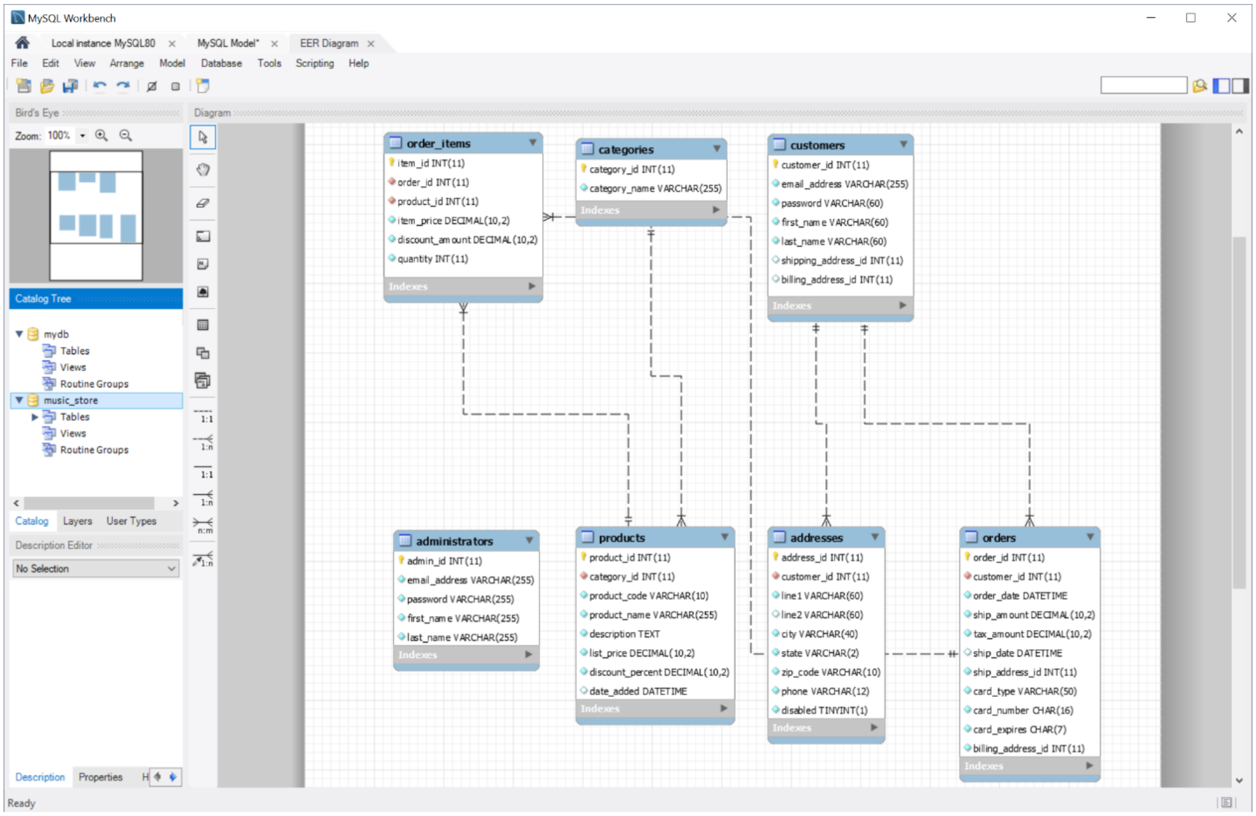
The character set and its collation selected here will be used when no other charset/collation is set for a database object (it uses the DEFAULT value

Information

Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*

Active schema changed to music_store

Final Project Step 1 - Screenshot #2



order_items
- item_id INT(11)
- order_id INT(11)
- product_id INT(11)
- item_price DECIMAL(10,2)
- discount_amount DECIMAL(10,2)
- quantity INT(11)
- Indexes

categories
- category_id INT(11)
- category_name VARCHAR(255)
- Indexes

customers
- customer_id INT(11)
- email_address VARCHAR(255)
- password VARCHAR(60)
- first_name VARCHAR(60)
- last_name VARCHAR(60)
- shipping_address_id INT(11)
- billing_address_id INT(11)
- Indexes

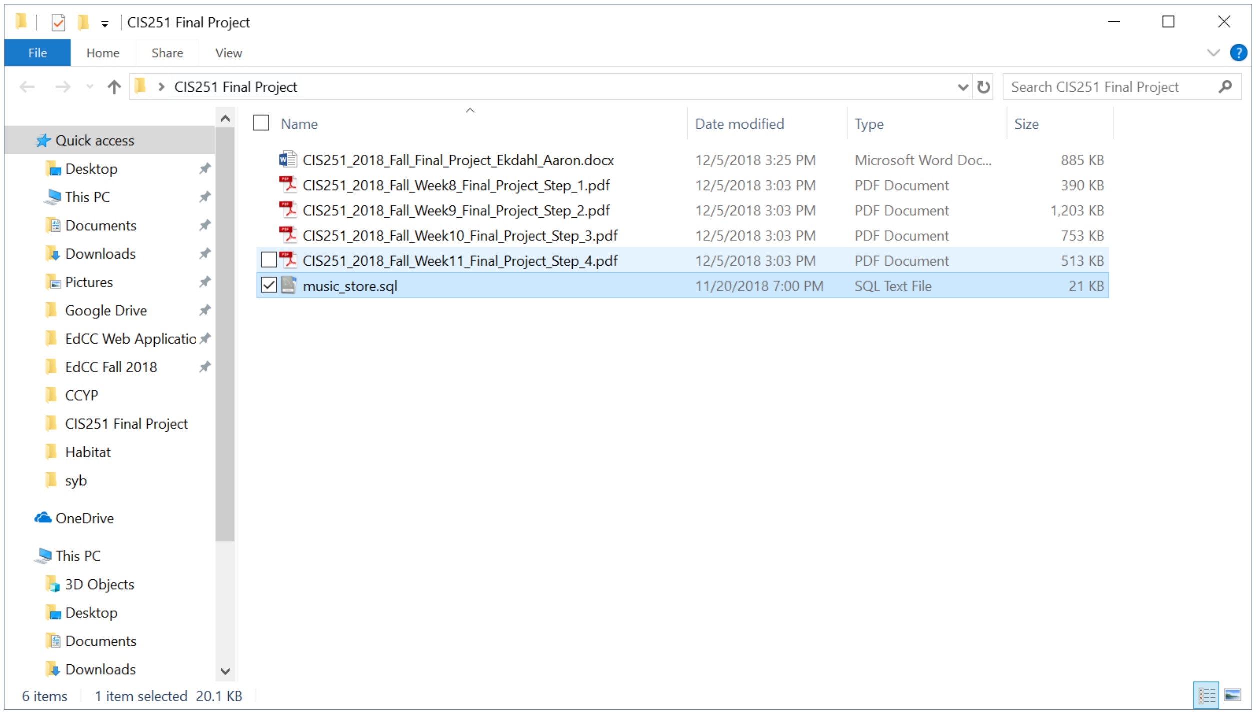
administrators
- admin_id INT(11)
- email_address VARCHAR(255)
- password VARCHAR(255)
- first_name VARCHAR(255)
- last_name VARCHAR(255)
- Indexes

products
- product_id INT(11)
- category_id INT(11)
- product_code VARCHAR(10)
- product_name VARCHAR(255)
- description TEXT
- list_price DECIMAL(10,2)
- discount_percent DECIMAL(10,2)
- date_added DATETIME
- Indexes

addresses
- address_id INT(11)
- customer_id INT(11)
- line1 VARCHAR(60)
- line2 VARCHAR(60)
- city VARCHAR(40)
- state VARCHAR(2)
- zip_code VARCHAR(10)
- phone VARCHAR(12)
- disabled TINYINT(1)
- Indexes

orders
- order_id INT(11)
- customer_id INT(11)
- order_date DATETIME
- ship_amount DECIMAL(10,2)
- tax_amount DECIMAL(10,2)
- ship_date DATETIME
- ship_address_id INT(11)
- card_type VARCHAR(50)
- card_number CHAR(16)
- card_expires CHAR(7)
- billing_address_id INT(11)
- Indexes

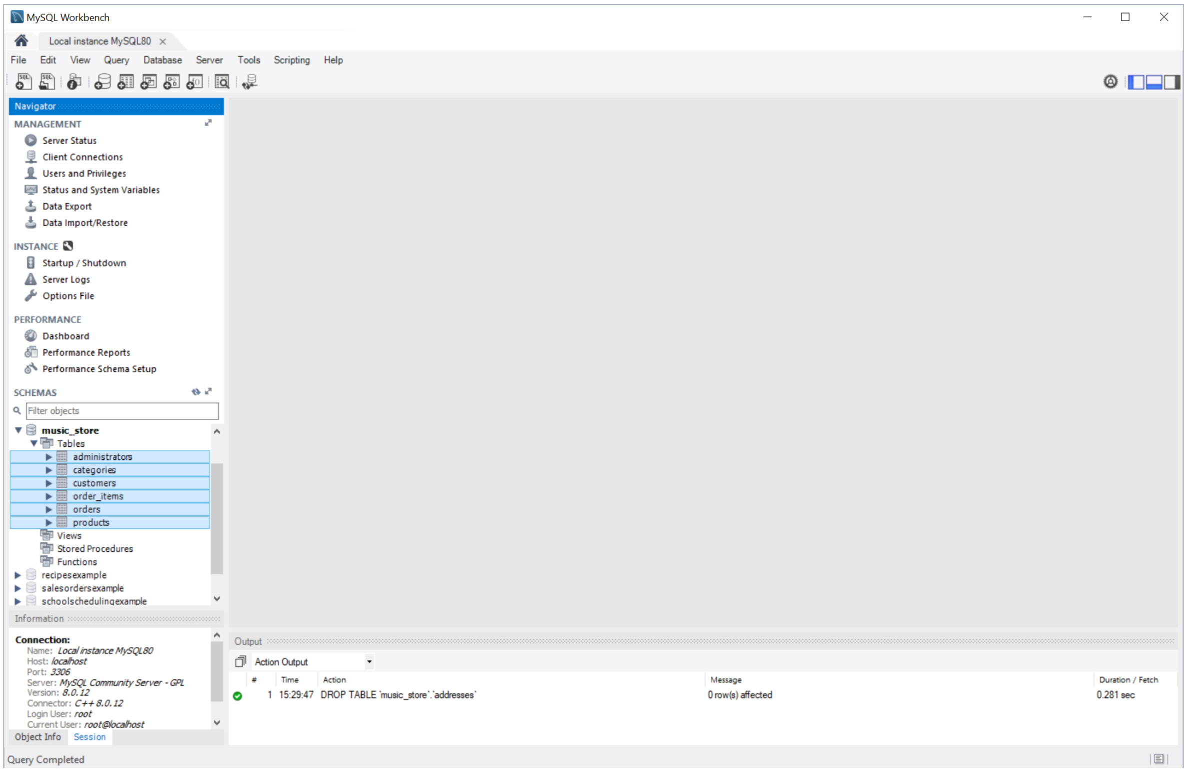
Final Project Step 2 - Screenshot #1



Name	Date modified	Type	Size
CIS251_2018_Fall_Final_Project_Ekdahl_Aaron.docx	12/5/2018 3:25 PM	Microsoft Word Doc...	885 KB
CIS251_2018_Fall_Week8_Final_Project_Step_1.pdf	12/5/2018 3:03 PM	PDF Document	390 KB
CIS251_2018_Fall_Week9_Final_Project_Step_2.pdf	12/5/2018 3:03 PM	PDF Document	1,203 KB
CIS251_2018_Fall_Week10_Final_Project_Step_3.pdf	12/5/2018 3:03 PM	PDF Document	753 KB
□ CIS251_2018_Fall_Week11_Final_Project_Step_4.pdf	12/5/2018 3:03 PM	PDF Document	513 KB
☑ music_store.sql	11/20/2018 7:00 PM	SQL Text File	21 KB

6 items 1 item selected 20.1 KB

Final Project Step 2 - Screenshot #2

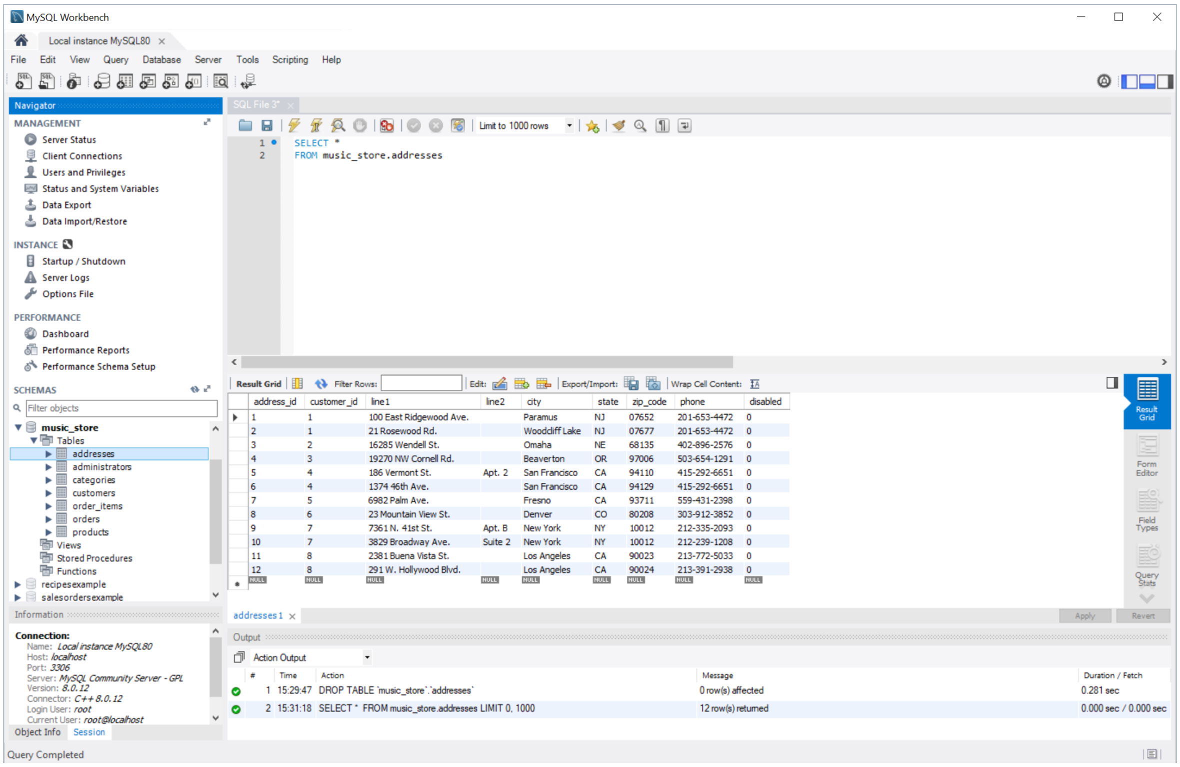


Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

```
#  Time      Action                                   Message              Duration / Fetch
1  15:29:47  DROP TABLE `music_store`.`addresses`     0 row(s) affected    0.281 sec
```

Query Completed

Final Project Step 2 - Screenshot #3



```
SELECT *
FROM music_store.addresses
```

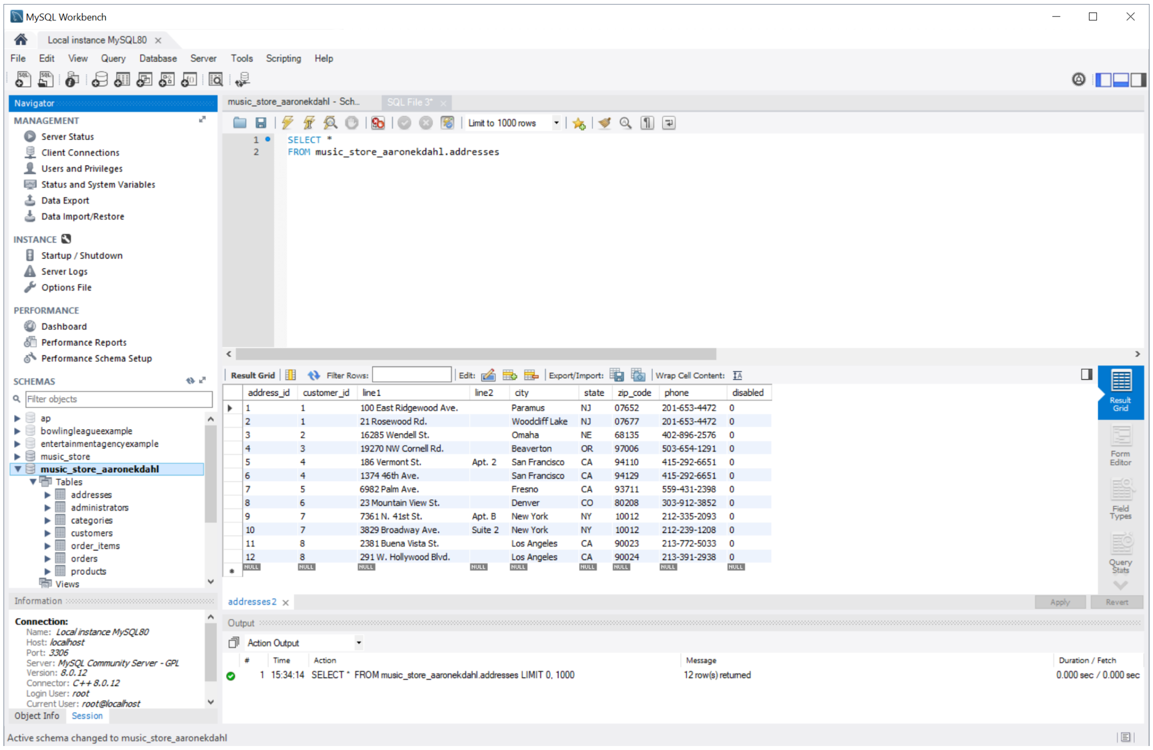
address_id	customer_id	line1	line2	city	state	zip_code	phone	disabled
1	1	100 East Ridgewood Ave.		Paramus	NJ	07652	201-653-4472	0
2	1	21 Rosewood Rd.		Woodcliff Lake	NJ	07677	201-653-4472	0
3	2	16285 Wendell St.		Omaha	NE	68135	402-896-2576	0
4	3	19270 NW Cornell Rd.		Beaverton	OR	97006	503-654-1291	0
5	4	186 Vermont St.	Apt. 2	San Francisco	CA	94110	415-292-6651	0
6	4	1374 46th Ave.		San Francisco	CA	94129	415-292-6651	0
7	5	6982 Palm Ave.		Fresno	CA	93711	559-431-2398	0
8	6	23 Mountain View St.		Denver	CO	80208	303-912-3852	0
9	7	7361 N. 41st St.	Apt. B	New York	NY	10012	212-335-2093	0
10	7	3829 Broadway Ave.	Suite 2	New York	NY	10012	212-239-1208	0
11	8	2381 Buena Vista St.		Los Angeles	CA	90023	213-772-5033	0
12	8	291 W. Hollywood Blvd.		Los Angeles	CA	90024	213-391-2938	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

```
#  Time      Action                                         Message              Duration / Fetch
1  15:29:47  DROP TABLE `music_store`.`addresses`           0 row(s) affected    0.281 sec
2  15:31:18  SELECT *  FROM music_store.addresses LIMIT 0, 1000   12 row(s) returned   0.000 sec / 0.000 sec
```

Query Completed

Final Project Step 2 - Screenshot #4



```
SELECT *
FROM music_store_aaronekdahl.addresses
```

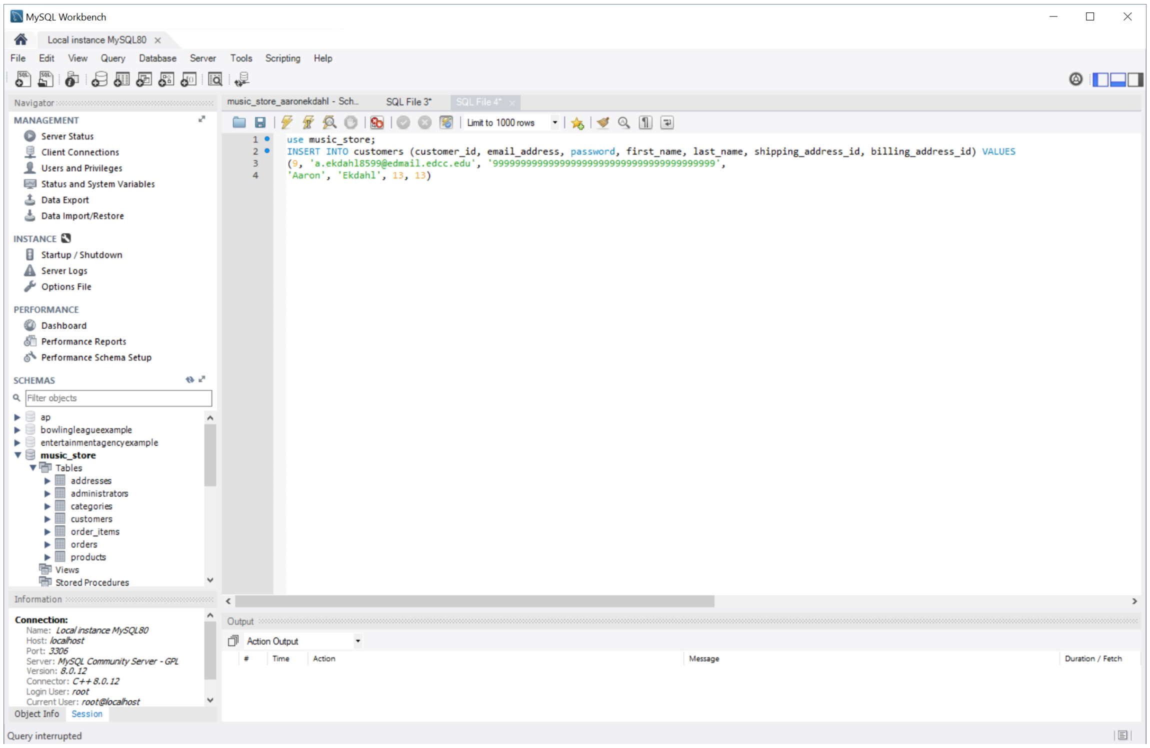
address_id	customer_id	line1	line2	city	state	zip_code	phone	disabled
1	1	100 East Ridgewood Ave.		Paramus	NJ	07652	201-653-4472	0
2	1	21 Rosewood Rd.		Woodcliff Lake	NJ	07677	201-653-4472	0
3	2	16285 Wendell St.		Omaha	NE	68135	402-896-2576	0
4	3	19270 NW Cornell Rd.		Beaverton	OR	97006	503-654-1291	0
5	4	186 Vermont St.	Apt. 2	San Francisco	CA	94110	415-292-6651	0
6	4	1374 46th Ave.		San Francisco	CA	94129	415-292-6651	0
7	5	6982 Palm Ave.		Fresno	CA	93711	559-431-2398	0
8	6	23 Mountain View St.		Denver	CO	80208	303-912-3852	0
9	7	7361 N. 41st St.	Apt. B	New York	NY	10012	212-335-2093	0
10	7	3829 Broadway Ave.	Suite 2	New York	NY	10012	212-239-1208	0
11	8	2381 Buena Vista St.		Los Angeles	CA	90023	213-772-5033	0
12	8	291 W. Hollywood Blvd.		Los Angeles	CA	90024	213-391-2938	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
#  Time      Action                                                 Message              Duration / Fetch
1  15:34:14  SELECT * FROM music_store_aaronekdahl.addresses LIMIT 0, 1000  12 row(s) returned  0.000 sec / 0.000 sec
```

Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

Active schema changed to music_store_aaronekdahl

Final Project Step 3 - Screenshot #1

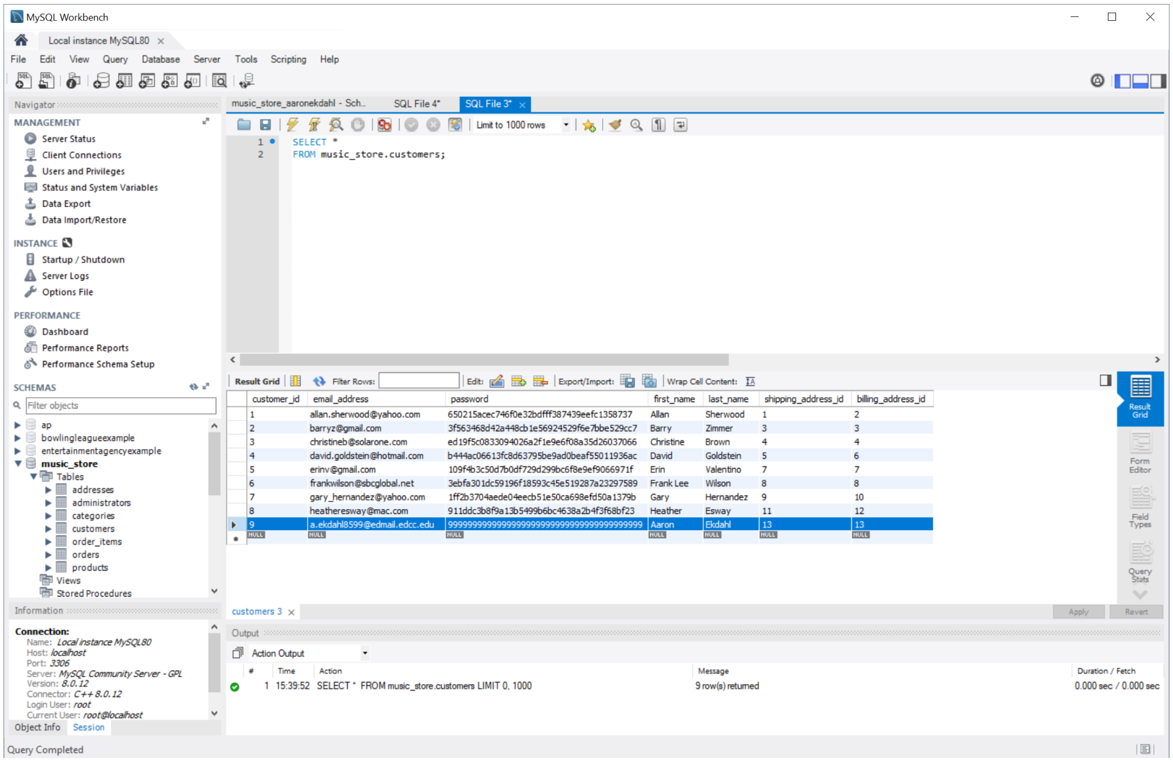


```
use music_store;
INSERT INTO customers (customer_id, email_address, password, first_name, last_name, shipping_address_id, billing_address_id) VALUES
(9, 'a.ekdahl8599@edmail.edcc.edu', '9999999999999999999999999999999999999999',
'Aaron', 'Ekdahl', 13, 13)
```

Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

Query interrupted

Final Project Step 3 - Screenshot #2



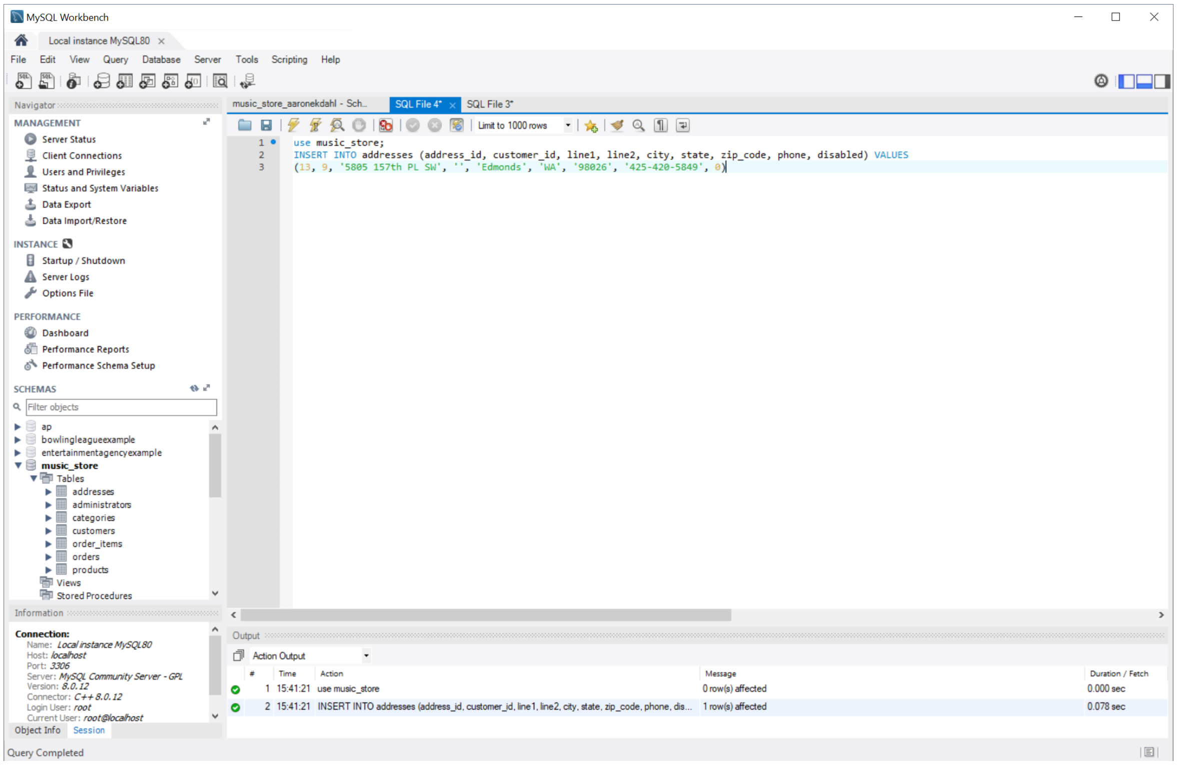
Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

```
SELECT *
FROM music_store.customers;
```

customer_id	email_address	password	first_name	last_name	shipping_address_id	billing_address_id
1	allan.sherwood@yahoo.com	650215acec746f0e32bdfff387439eefc1358737	Allan	Sherwood	1	2
2	barryz@gmail.com	3f563468d42a448cb1e56924529f6e7bbe529cc7	Barry	Zimmer	3	3
3	christineb@solarone.com	ed19f5c0833094026a2f1e9e6f08a35d26037066	Christine	Brown	4	4
4	david.goldstein@hotmail.com	b444ac06613fc8d63795be9ad0beaf55011936ac	David	Goldstein	5	6
5	erinv@gmail.com	109f4b3c50d7b0df729d299bc6f8e9ef9066971f	Erin	Valentino	7	7
6	frankwilson@sbcglobal.net	3ebfa301dc59196f18593c45e519287a23297589	Frank Lee	Wilson	8	8
7	gary_hernandez@yahoo.com	1ff2b3704aede04eecb51e50ca698efd50a1379b	Gary	Hernandez	9	10
8	heatheresway@mac.com	911ddc3b8f9a13b5499b6bc4638a2b4f3f68bf23	Heather	Esway	11	12
9	a.ekdahl8599@edmail.edcc.edu	9999999999999999999999999999999999999999	Aaron	Ekdahl	13	13
NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
#   Time      Action                                              Message            Duration / Fetch
1   15:39:52  SELECT * FROM music_store.customers LIMIT 0, 1000   9 row(s) returned  0.000 sec / 0.000 sec
```

Final Project Step 3 - Screenshot #3

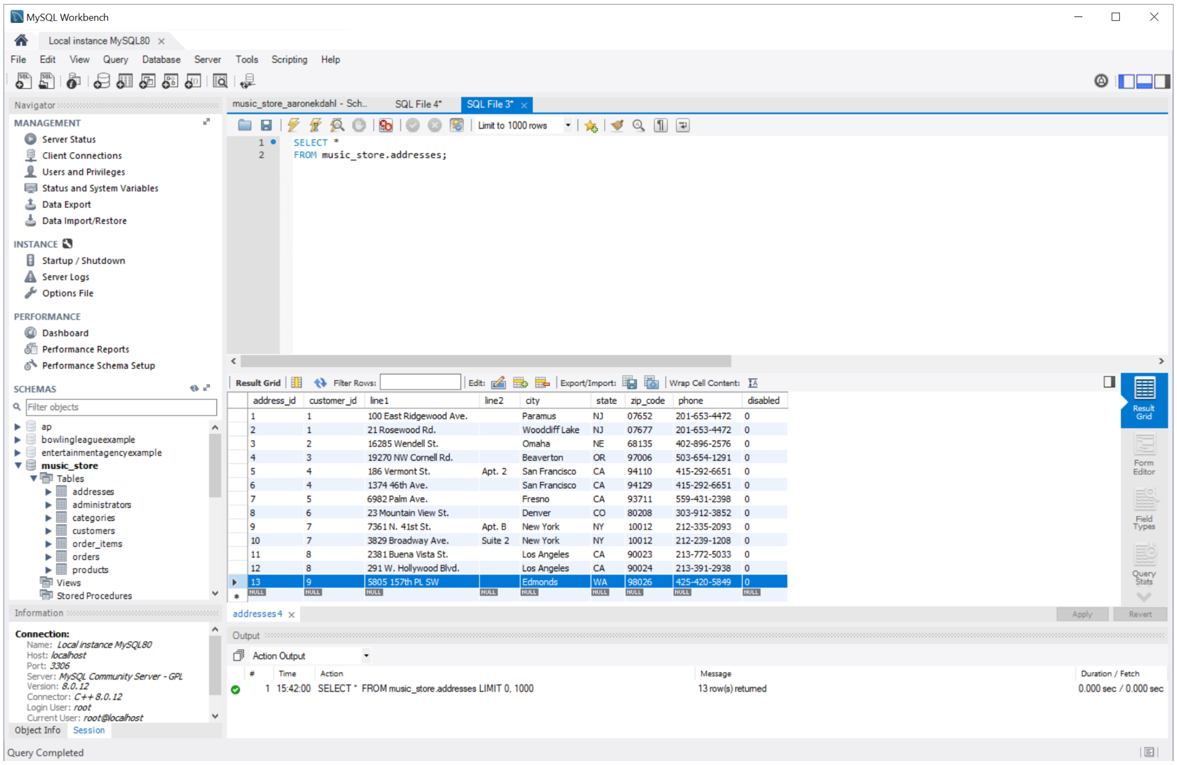


Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

```
use music_store;
INSERT INTO addresses (address_id, customer_id, line1, line2, city, state, zip_code, phone, disabled) VALUES
(13, 9, '5805 157th PL SW', '', 'Edmonds', 'WA', '98026', '425-420-5849', 0)
```

```
#   Time      Action                                                                                 Message             Duration / Fetch
1   15:41:21  use music_store                                                                        0 row(s) affected   0.000 sec
2   15:41:21  INSERT INTO addresses (address_id, customer_id, line1, line2, city, state, zip_code, phone, dis...   1 row(s) affected   0.078 sec
```

Final Project Step 3 - Screenshot #4



```
SELECT *
FROM music_store.addresses;
```

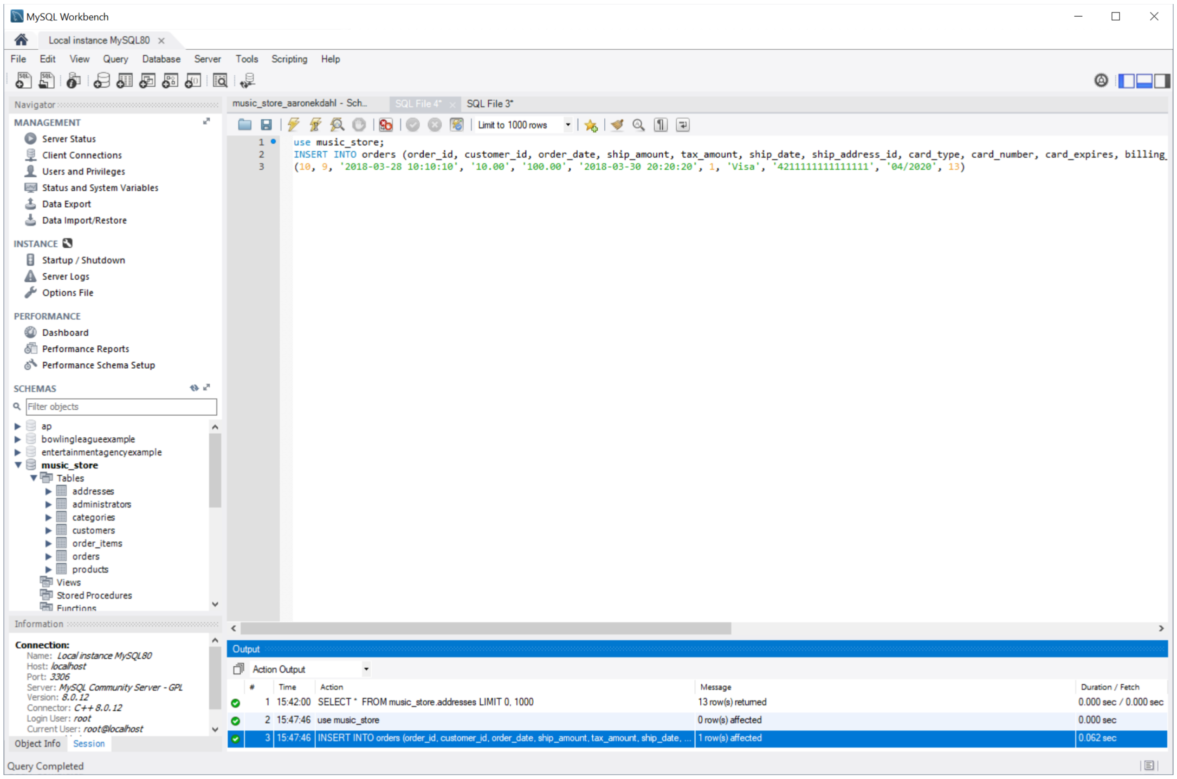
address_id	customer_id	line1	line2	city	state	zip_code	phone	disabled
1	1	100 East Ridgewood Ave.		Paramus	NJ	07652	201-653-4472	0
2	1	21 Rosewood Rd.		Woodcliff Lake	NJ	07677	201-653-4472	0
3	2	16285 Wendell St.		Omaha	NE	68135	402-896-2576	0
4	3	19270 NW Cornell Rd.		Beaverton	OR	97006	503-654-1291	0
5	4	186 Vermont St.	Apt. 2	San Francisco	CA	94110	415-292-6651	0
6	4	1374 46th Ave.		San Francisco	CA	94129	415-292-6651	0
7	5	6982 Palm Ave.		Fresno	CA	93711	559-431-2398	0
8	6	23 Mountain View St.		Denver	CO	80208	303-912-3852	0
9	7	7361 N. 41st St.	Apt. B	New York	NY	10012	212-335-2093	0
10	7	3829 Broadway Ave.	Suite 2	New York	NY	10012	212-239-1208	0
11	8	2381 Buena Vista St.		Los Angeles	CA	90023	213-772-5033	0
12	8	291 W. Hollywood Blvd.		Los Angeles	CA	90024	213-391-2938	0
13	9	5805 157th PL SW		Edmonds	WA	98026	425-420-5849	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Output — Action Output

```
#  Time      Action                                          Message              Duration / Fetch
1  15:42:00  SELECT *  FROM music_store.addresses LIMIT 0, 1000   13 row(s) returned   0.000 sec / 0.000 sec
```

Connection:
Name: Local instance MySQL80
Host: localhost
Port: 3306
Server: MySQL Community Server - GPL
Version: 8.0.12
Connector: C++ 8.0.12
Login User: root
Current User: root@localhost

Final Project Step 3 - Screenshot #5



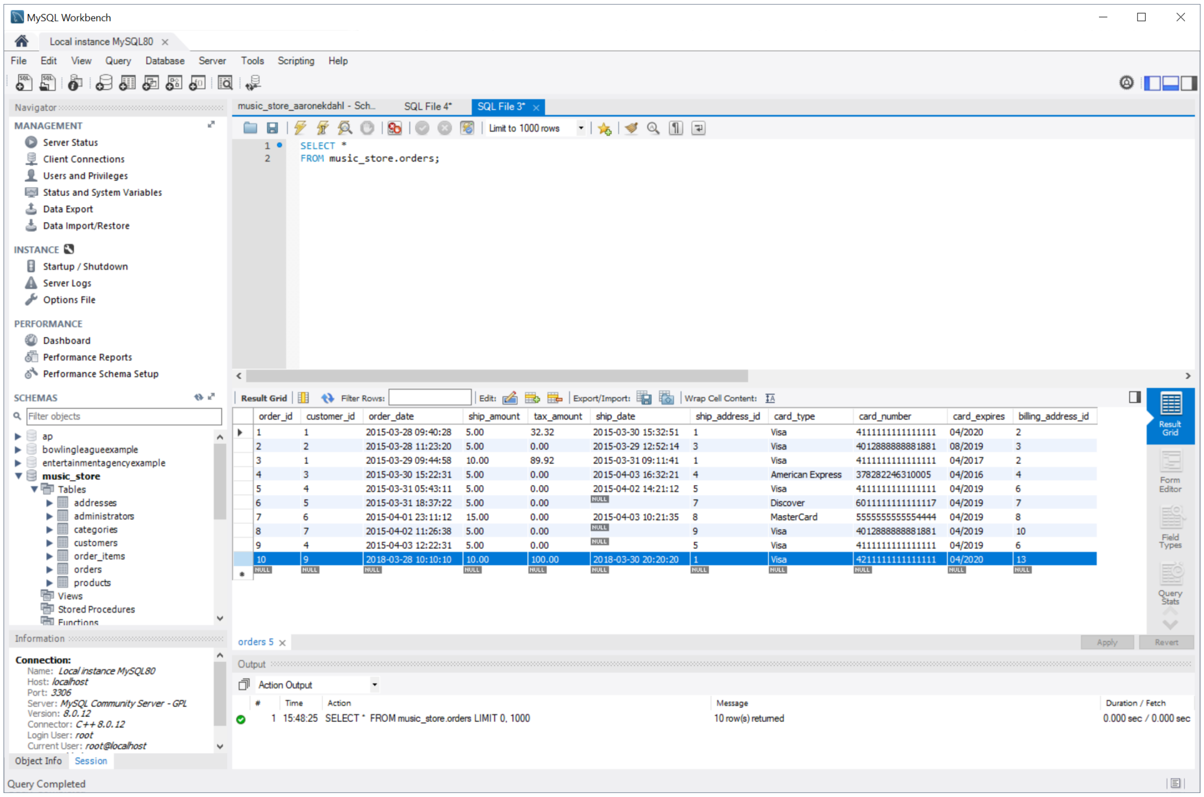
```
use music_store;
INSERT INTO orders (order_id, customer_id, order_date, ship_amount, tax_amount, ship_date, ship_address_id, card_type, card_number, card_expires, billing_
(10, 9, '2018-03-28 10:10:10', '10.00', '100.00', '2018-03-30 20:20:20', 1, 'Visa', '4211111111111111', '04/2020', 13)
```

Output — Action Output

```
#  Time      Action                                                                                    Message              Duration / Fetch
1  15:42:00  SELECT *  FROM music_store.addresses LIMIT 0, 1000                                        13 row(s) returned   0.000 sec / 0.000 sec
2  15:47:46  use music_store                                                                           0 row(s) affected    0.000 sec
3  15:47:46  INSERT INTO orders (order_id, customer_id, order_date, ship_amount, tax_amount, ship_date, ...   1 row(s) affected    0.062 sec
```

Connection:
Name: Local instance MySQL80
Host: localhost
Port: 3306
Server: MySQL Community Server - GPL
Version: 8.0.12
Connector: C++ 8.0.12
Login User: root
Current User: root@localhost

Final Project Step 3 - Screenshot #6



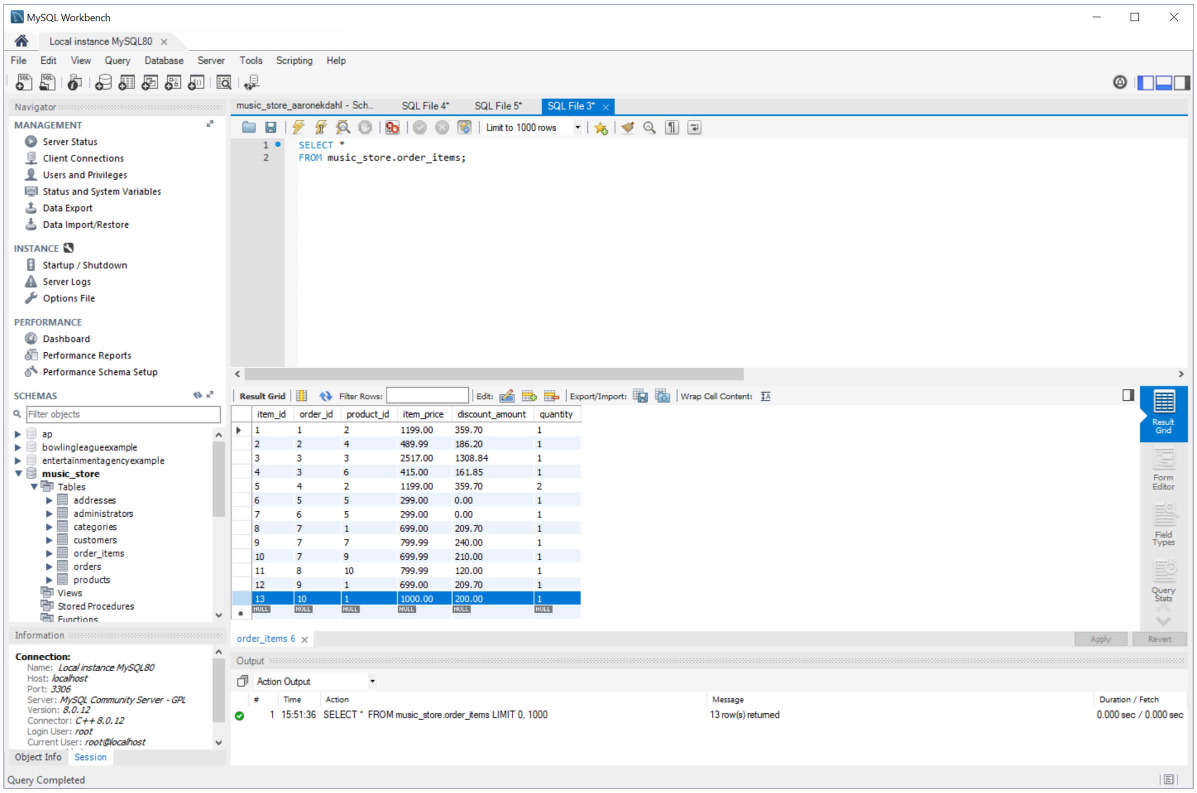
```
SELECT *
FROM music_store.orders;
```

order_id	customer_id	order_date	ship_amount	tax_amount	ship_date	ship_address_id	card_type	card_number	card_expires	billing_address_id
1	1	2015-03-28 09:40:28	5.00	32.32	2015-03-30 15:32:51	1	Visa	4111111111111111	04/2020	2
2	2	2015-03-28 11:23:20	5.00	0.00	2015-03-29 12:52:14	3	Visa	4012888888881881	08/2019	3
3	1	2015-03-29 09:44:58	10.00	89.92	2015-03-31 09:11:41	1	Visa	4111111111111111	04/2017	2
4	3	2015-03-30 15:22:31	5.00	0.00	2015-04-03 16:32:21	4	American Express	378282246310005	04/2016	4
5	4	2015-03-31 05:43:11	5.00	0.00	2015-04-02 14:21:12	5	Visa	4111111111111111	04/2019	6
6	5	2015-03-31 18:37:22	5.00	0.00	NULL	7	Discover	6011111111111117	04/2019	7
7	6	2015-04-01 23:11:12	15.00	0.00	2015-04-03 10:21:35	8	MasterCard	5555555555554444	04/2019	8
8	7	2015-04-02 11:26:38	5.00	0.00	NULL	9	Visa	4012888888881881	04/2019	10
9	4	2015-04-03 12:22:31	5.00	0.00	NULL	5	Visa	4111111111111111	04/2019	6
10	9	2018-03-28 10:10:10	10.00	100.00	2018-03-30 20:20:20	1	Visa	4211111111111111	04/2020	13
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

#	Time	Action	Message	Duration / Fetch
1	15:48:25	SELECT * FROM music_store.orders LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

Final Project Step 3 - Screenshot #7



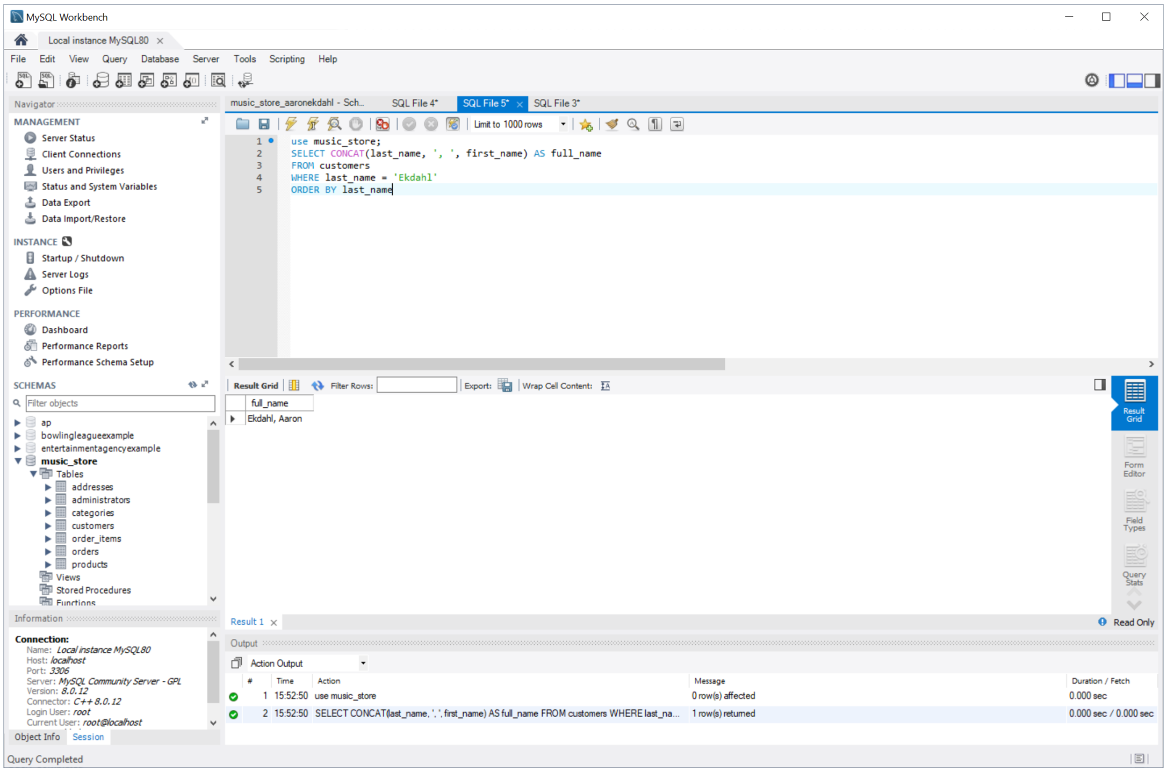
```
SELECT *
FROM music_store.order_items;
```

item_id	order_id	product_id	item_price	discount_amount	quantity
1	1	2	1199.00	359.70	1
2	2	4	489.99	186.20	1
3	3	3	2517.00	1308.84	1
4	3	6	415.00	161.85	1
5	4	2	1199.00	359.70	2
6	5	5	299.00	0.00	1
7	6	5	299.00	0.00	1
8	7	1	699.00	209.70	1
9	7	7	799.99	240.00	1
10	7	9	699.99	210.00	1
11	8	10	799.99	120.00	1
12	9	1	699.00	209.70	1
13	10	1	1000.00	200.00	1
NULL	NULL	NULL	NULL	NULL	NULL

#	Time	Action	Message	Duration / Fetch
1	15:51:36	SELECT * FROM music_store.order_items LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec

Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

Final Project Step 3 - Screenshot #8



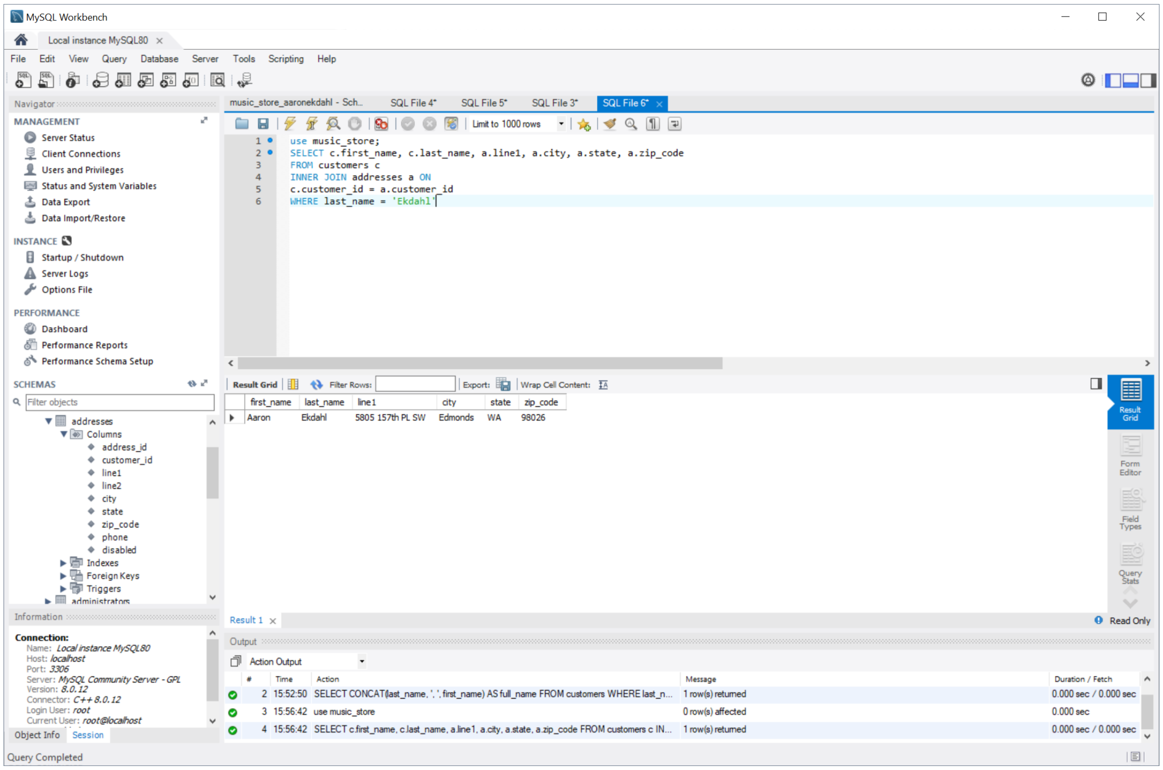
```sql
use music_store;
SELECT CONCAT(last_name, ', ', first_name) AS full_name
FROM customers
WHERE last_name = 'Ekdahl'
ORDER BY last_name
```

	full_name
▶	Ekdahl, Aaron

Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

	#	Time	Action	Message	Duration / Fetch
✓	1	15:52:50	use music_store	0 row(s) affected	0.000 sec
✓	2	15:52:50	SELECT CONCAT(last_name, ', ', first_name) AS full_name FROM customers WHERE last_na...	1 row(s) returned	0.000 sec / 0.000 sec

Final Project Step 3 - Screenshot #9



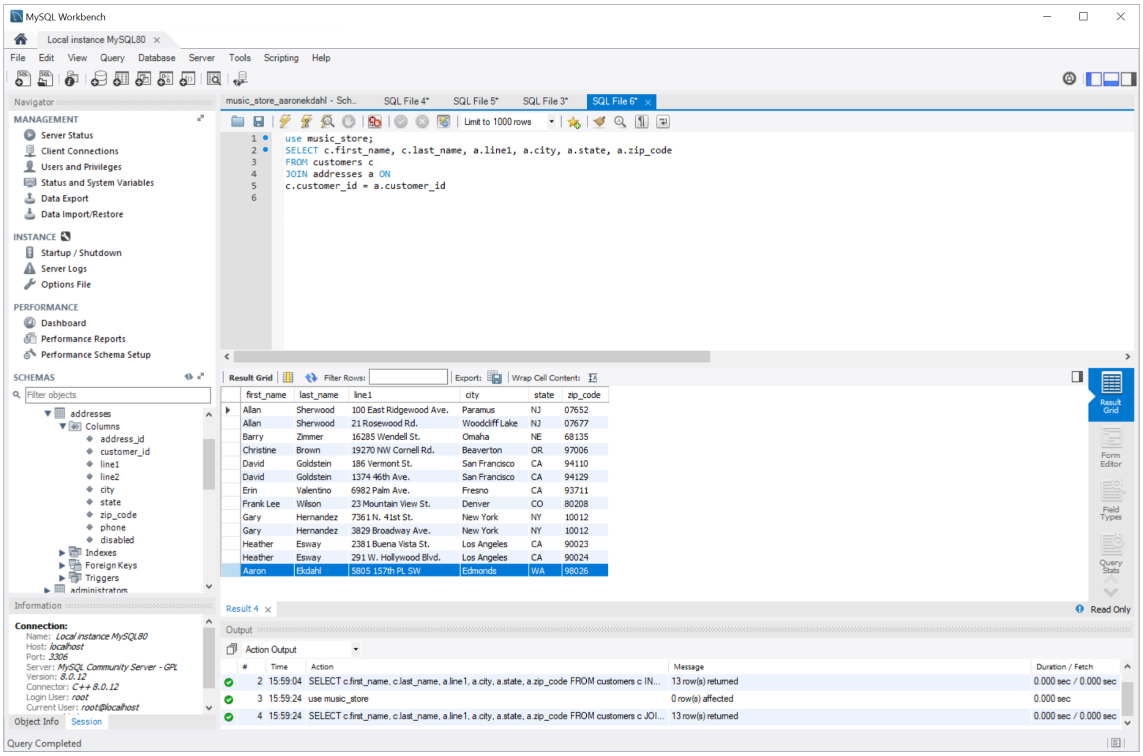
```sql
use music_store;
SELECT c.first_name, c.last_name, a.line1, a.city, a.state, a.zip_code
FROM customers c
INNER JOIN addresses a ON
c.customer_id = a.customer_id
WHERE last_name = 'Ekdahl'
```

	first_name	last_name	line1	city	state	zip_code
▶	Aaron	Ekdahl	5805 157th PL SW	Edmonds	WA	98026

Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

	#	Time	Action	Message	Duration / Fetch
✓	2	15:52:50	SELECT CONCAT(last_name, ', ', first_name) AS full_name FROM customers WHERE last_n...	1 row(s) returned	0.000 sec / 0.000 sec
✓	3	15:56:42	use music_store	0 row(s) affected	0.000 sec
✓	4	15:56:42	SELECT c.first_name, c.last_name, a.line1, a.city, a.state, a.zip_code FROM customers c IN...	1 row(s) returned	0.000 sec / 0.000 sec

Final Project Step 3 - Screenshot #10



Connection:
Name: *Local instance MySQL80*
Host: *localhost*
Port: *3306*
Server: *MySQL Community Server - GPL*
Version: *8.0.12*
Connector: *C++ 8.0.12*
Login User: *root*
Current User: *root@localhost*

```sql
use music_store;
SELECT c.first_name, c.last_name, a.line1, a.city, a.state, a.zip_code
FROM customers c
JOIN addresses a ON
c.customer_id = a.customer_id
```

first_name	last_name	line1	city	state	zip_code
Allan	Sherwood	100 East Ridgewood Ave.	Paramus	NJ	07652
Allan	Sherwood	21 Rosewood Rd.	Woodcliff Lake	NJ	07677
Barry	Zimmer	16285 Wendell St.	Omaha	NE	68135
Christine	Brown	19270 NW Cornell Rd.	Beaverton	OR	97006
David	Goldstein	186 Vermont St.	San Francisco	CA	94110
David	Goldstein	1374 46th Ave.	San Francisco	CA	94129
Erin	Valentino	6982 Palm Ave.	Fresno	CA	93711
Frank Lee	Wilson	23 Mountain View St.	Denver	CO	80208
Gary	Hernandez	7361 N. 41st St.	New York	NY	10012
Gary	Hernandez	3829 Broadway Ave.	New York	NY	10012
Heather	Esway	2381 Buena Vista St.	Los Angeles	CA	90023
Heather	Esway	291 W. Hollywood Blvd.	Los Angeles	CA	90024
Aaron	Ekdahl	5805 157th PL SW	Edmonds	WA	98026

```
#  Time      Action                                                                                Message              Duration / Fetch
2  15:59:04  SELECT c.first_name, c.last_name, a.line1, a.city, a.state, a.zip_code FROM customers c IN...  13 row(s) returned   0.000 sec / 0.000 sec
3  15:59:24  use music_store                                                                       0 row(s) affected    0.000 sec
4  15:59:24  SELECT c.first_name, c.last_name, a.line1, a.city, a.state, a.zip_code FROM customers c JOI... 13 row(s) returned   0.000 sec / 0.000 sec
```

Final Project Step 3 - Screenshot #11

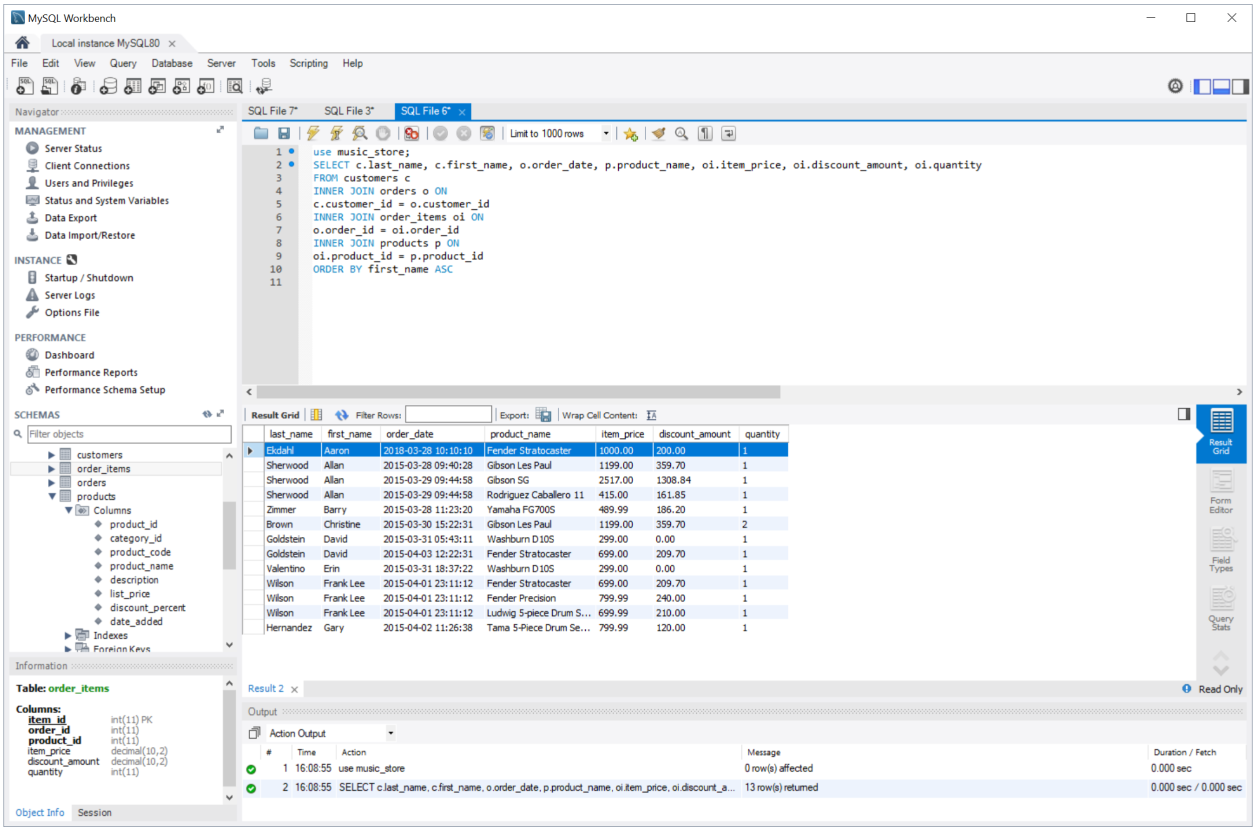


Table: order_items

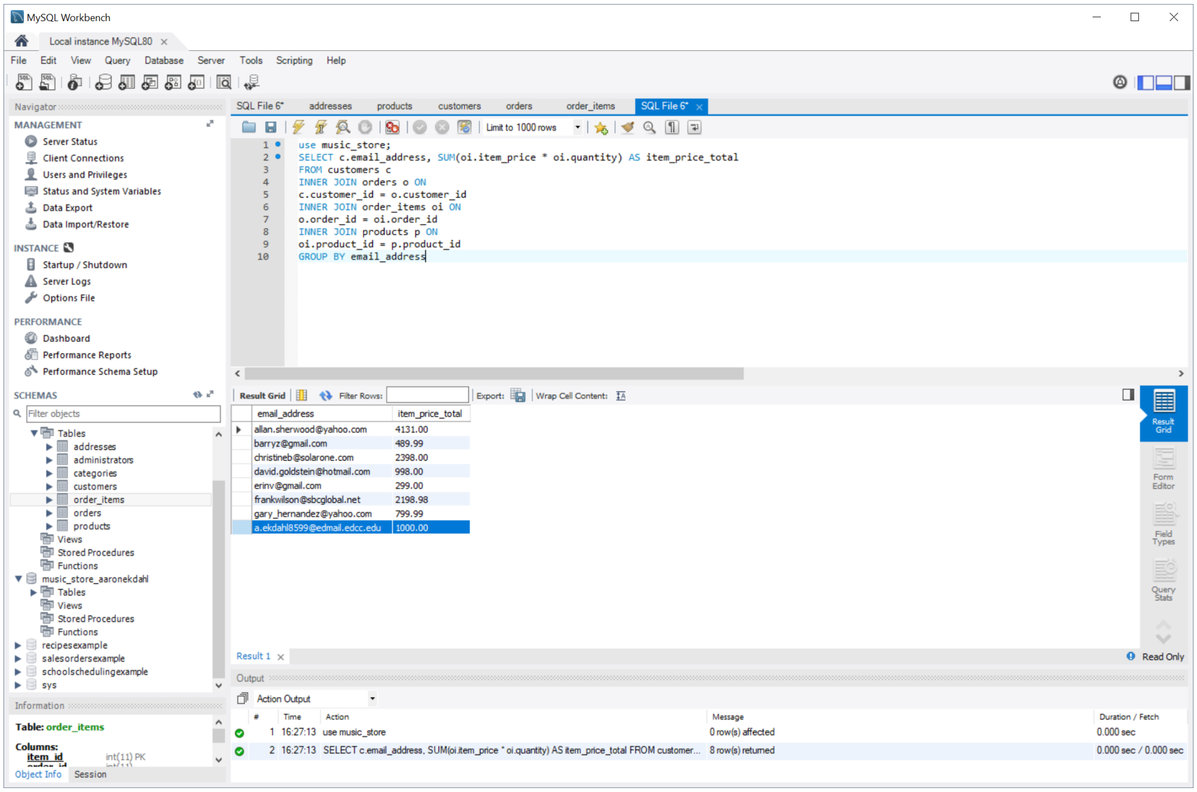
Columns:
item_id int(11) PK
order_id int(11)
product_id int(11)
item_price decimal(10,2)
discount_amount decimal(10,2)
quantity int(11)

```sql
use music_store;
SELECT c.last_name, c.first_name, o.order_date, p.product_name, oi.item_price, oi.discount_amount, oi.quantity
FROM customers c
INNER JOIN orders o ON
c.customer_id = o.customer_id
INNER JOIN order_items oi ON
o.order_id = oi.order_id
INNER JOIN products p ON
oi.product_id = p.product_id
ORDER BY first_name ASC
```

last_name	first_name	order_date	product_name	item_price	discount_amount	quantity
Ekdahl	Aaron	2018-03-28 10:10:10	Fender Stratocaster	1000.00	200.00	1
Sherwood	Allan	2015-03-28 09:40:28	Gibson Les Paul	1199.00	359.70	1
Sherwood	Allan	2015-03-29 09:44:58	Gibson SG	2517.00	1308.84	1
Sherwood	Allan	2015-03-29 09:44:58	Rodriguez Caballero 11	415.00	161.85	1
Zimmer	Barry	2015-03-28 11:23:20	Yamaha FG700S	489.99	186.20	1
Brown	Christine	2015-03-30 15:22:31	Gibson Les Paul	1199.00	359.70	2
Goldstein	David	2015-03-31 05:43:11	Washburn D10S	299.00	0.00	1
Goldstein	David	2015-04-03 12:22:31	Fender Stratocaster	699.00	209.70	1
Valentino	Erin	2015-03-31 18:37:22	Washburn D10S	299.00	0.00	1
Wilson	Frank Lee	2015-04-01 23:11:12	Fender Stratocaster	699.00	209.70	1
Wilson	Frank Lee	2015-04-01 23:11:12	Fender Precision	799.99	240.00	1
Wilson	Frank Lee	2015-04-01 23:11:12	Ludwig 5-piece Drum S...	699.99	210.00	1
Hernandez	Gary	2015-04-02 11:26:38	Tama 5-Piece Drum Se...	799.99	120.00	1

```
#  Time      Action                                                                                    Message             Duration / Fetch
1  16:08:55  use music_store                                                                           0 row(s) affected   0.000 sec
2  16:08:55  SELECT c.last_name, c.first_name, o.order_date, p.product_name, oi.item_price, oi.discount_a...  13 row(s) returned  0.000 sec / 0.000 sec
```

Final Project Step 4 – Screenshot #1

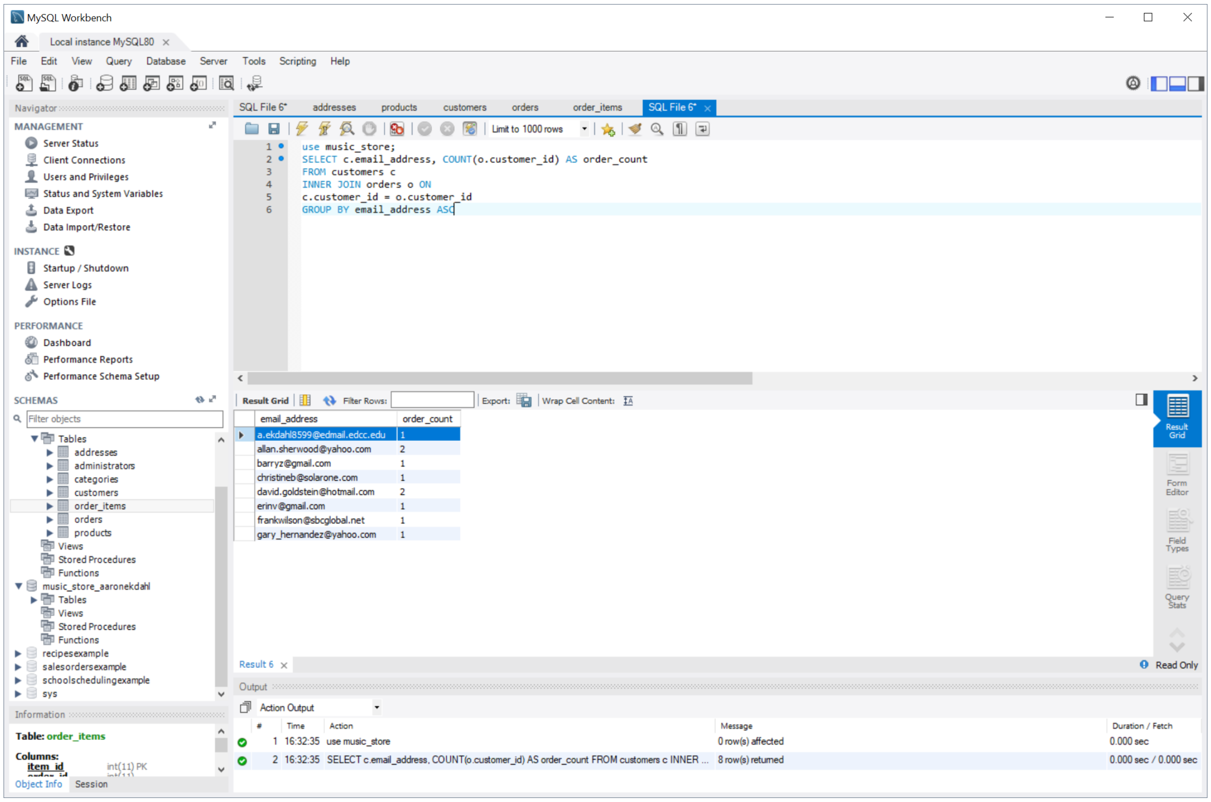


```sql
use music_store;
SELECT c.email_address, SUM(oi.item_price * oi.quantity) AS item_price_total
FROM customers c
INNER JOIN orders o ON
c.customer_id = o.customer_id
INNER JOIN order_items oi ON
o.order_id = oi.order_id
INNER JOIN products p ON
oi.product_id = p.product_id
GROUP BY email_address
```

email_address	item_price_total
allan.sherwood@yahoo.com	4131.00
barryz@gmail.com	489.99
christineb@solarone.com	2398.00
david.goldstein@hotmail.com	998.00
erinv@gmail.com	299.00
frankwilson@sbcglobal.net	2198.98
gary_hernandez@yahoo.com	799.99
a.ekdahl8599@edmail.edcc.edu	1000.00

```
#  Time      Action                                                                      Message              Duration / Fetch
1  16:27:13  use music_store                                                             0 row(s) affected    0.000 sec
2  16:27:13  SELECT c.email_address, SUM(oi.item_price * oi.quantity) AS item_price_total FROM customer...  8 row(s) returned    0.000 sec / 0.000 sec
```

Final Project Step 4 – Screenshot #2

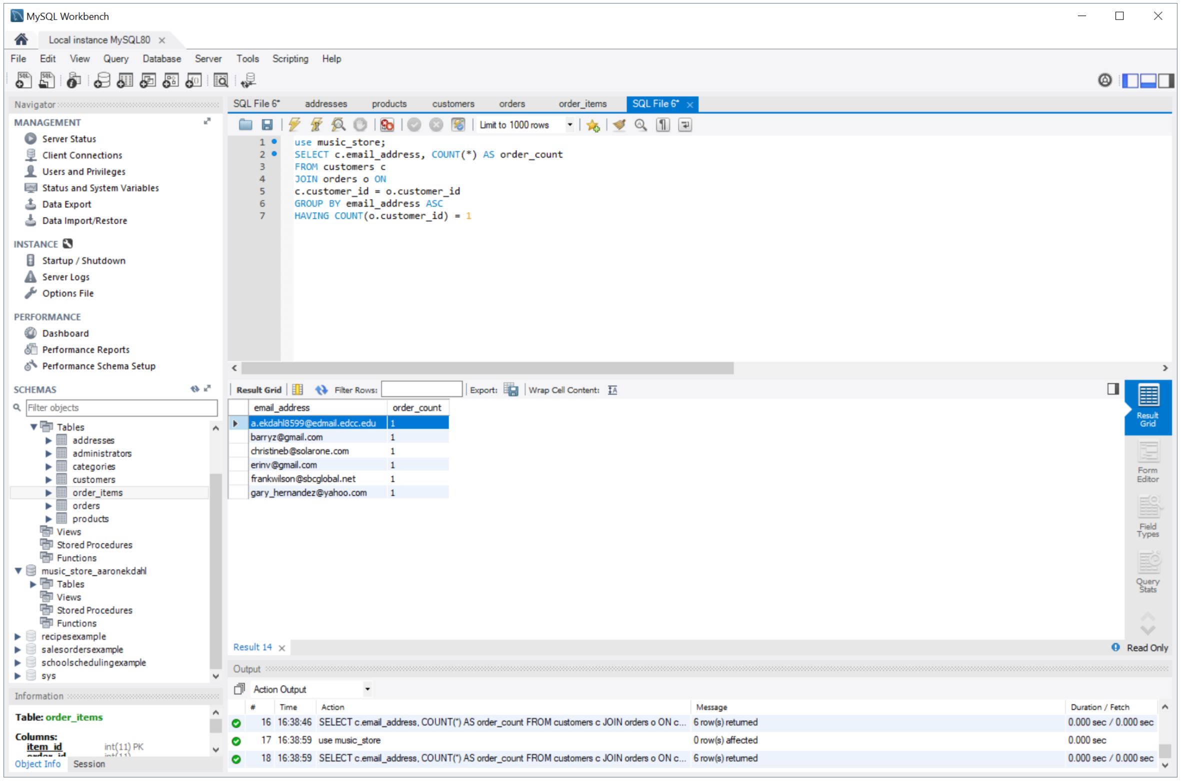


```sql
use music_store;
SELECT c.email_address, COUNT(o.customer_id) AS order_count
FROM customers c
INNER JOIN orders o ON
c.customer_id = o.customer_id
GROUP BY email_address ASC
```

email_address	order_count
a.ekdahl8599@edmail.edcc.edu	1
allan.sherwood@yahoo.com	2
barryz@gmail.com	1
christineb@solarone.com	1
david.goldstein@hotmail.com	2
erinv@gmail.com	1
frankwilson@sbcglobal.net	1
gary_hernandez@yahoo.com	1

```
#  Time      Action                                                                      Message              Duration / Fetch
1  16:32:35  use music_store                                                             0 row(s) affected    0.000 sec
2  16:32:35  SELECT c.email_address, COUNT(o.customer_id) AS order_count FROM customers c INNER ...  8 row(s) returned    0.000 sec / 0.000 sec
```

Final Project Step 4 – Screenshot #3

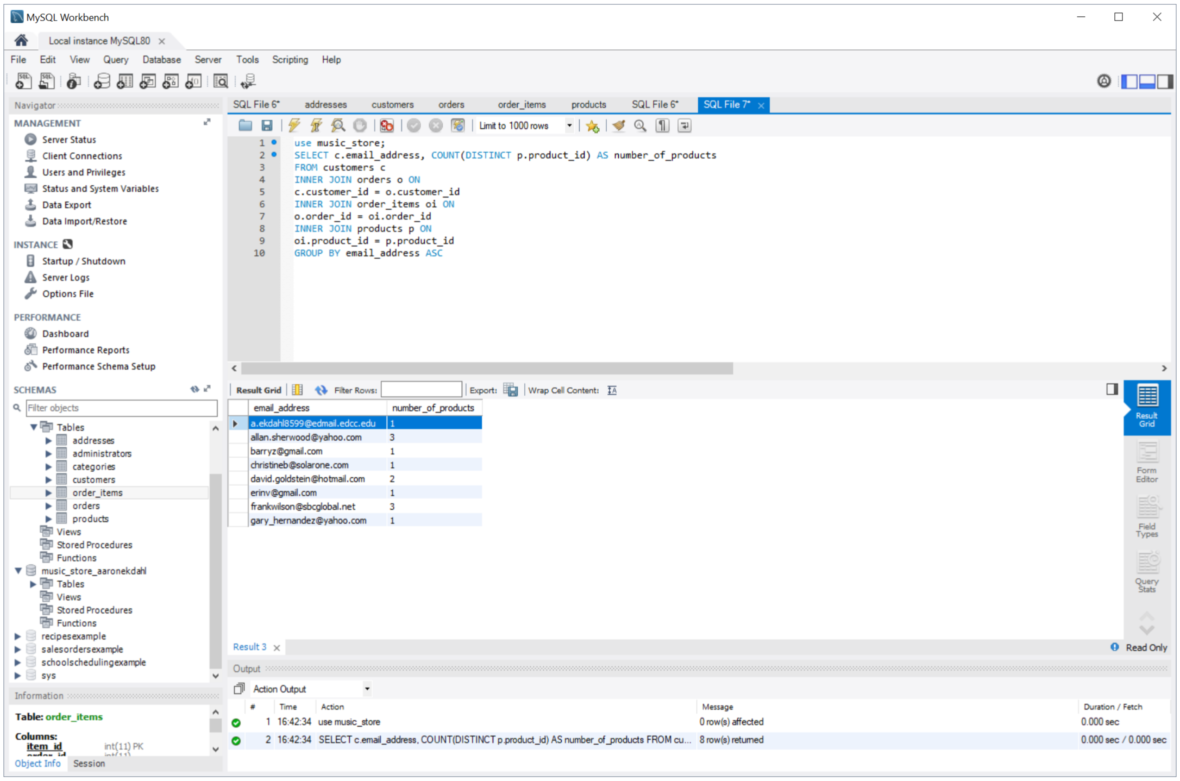


```
use music_store;
SELECT c.email_address, COUNT(*) AS order_count
FROM customers c
JOIN orders o ON
c.customer_id = o.customer_id
GROUP BY email_address ASC
HAVING COUNT(o.customer_id) = 1
```

email_address	order_count
a.ekdahl8599@edmail.edcc.edu	1
barryz@gmail.com	1
christineb@solarone.com	1
erinv@gmail.com	1
frankwilson@sbcglobal.net	1
gary_hernandez@yahoo.com	1

```
#   Time      Action                                                                          Message             Duration / Fetch
16  16:38:46  SELECT c.email_address, COUNT(*) AS order_count FROM customers c JOIN orders o ON c...  6 row(s) returned   0.000 sec / 0.000 sec
17  16:38:59  use music_store                                                                 0 row(s) affected   0.000 sec
18  16:38:59  SELECT c.email_address, COUNT(*) AS order_count FROM customers c JOIN orders o ON c...  6 row(s) returned   0.000 sec / 0.000 sec
```

Final Project Step 4 – Screenshot #4

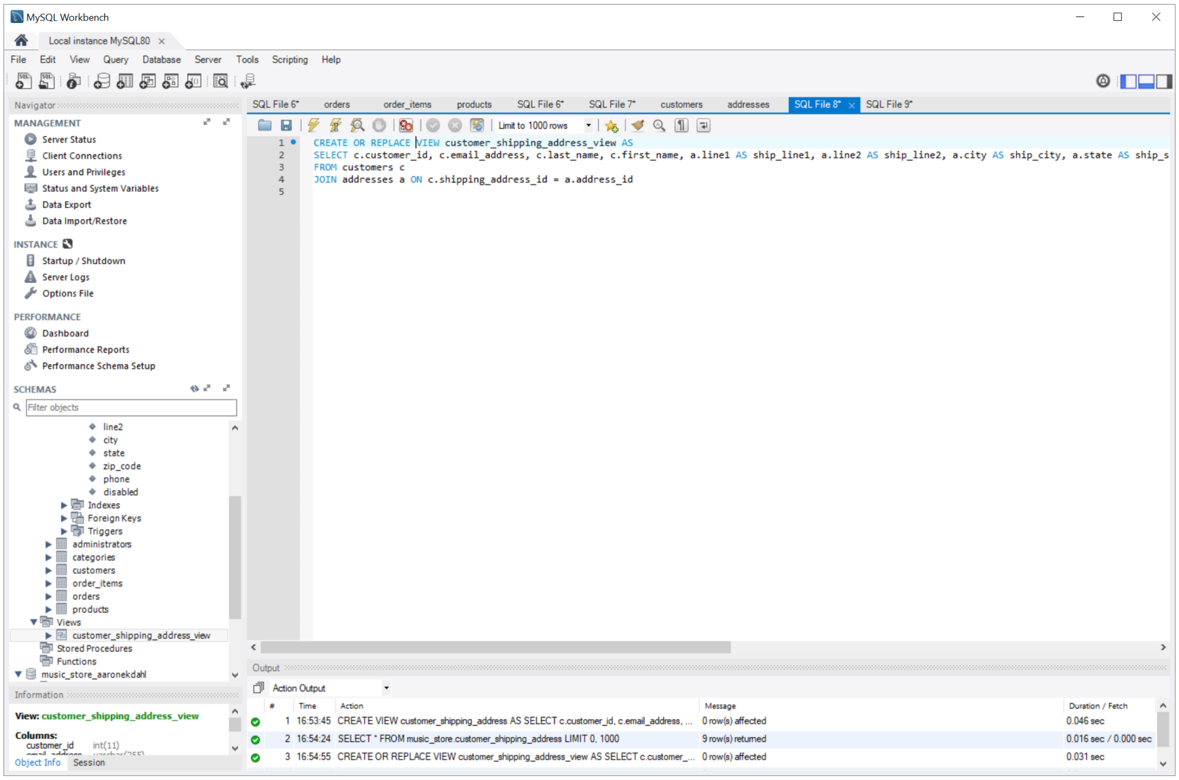


```
use music_store;
SELECT c.email_address, COUNT(DISTINCT p.product_id) AS number_of_products
FROM customers c
INNER JOIN orders o ON
c.customer_id = o.customer_id
INNER JOIN order_items oi ON
o.order_id = oi.order_id
INNER JOIN products p ON
oi.product_id = p.product_id
GROUP BY email_address ASC
```

email_address	number_of_products
a.ekdahl8599@edmail.edcc.edu	1
allan.sherwood@yahoo.com	3
barryz@gmail.com	1
christineb@solarone.com	1
david.goldstein@hotmail.com	2
erinv@gmail.com	1
frankwilson@sbcglobal.net	3
gary_hernandez@yahoo.com	1

```
#  Time      Action                                                                                   Message             Duration / Fetch
1  16:42:34  use music_store                                                                          0 row(s) affected   0.000 sec
2  16:42:34  SELECT c.email_address, COUNT(DISTINCT p.product_id) AS number_of_products FROM cu...  8 row(s) returned   0.000 sec / 0.000 sec
```

Final Project Step 4 – Screenshot #5



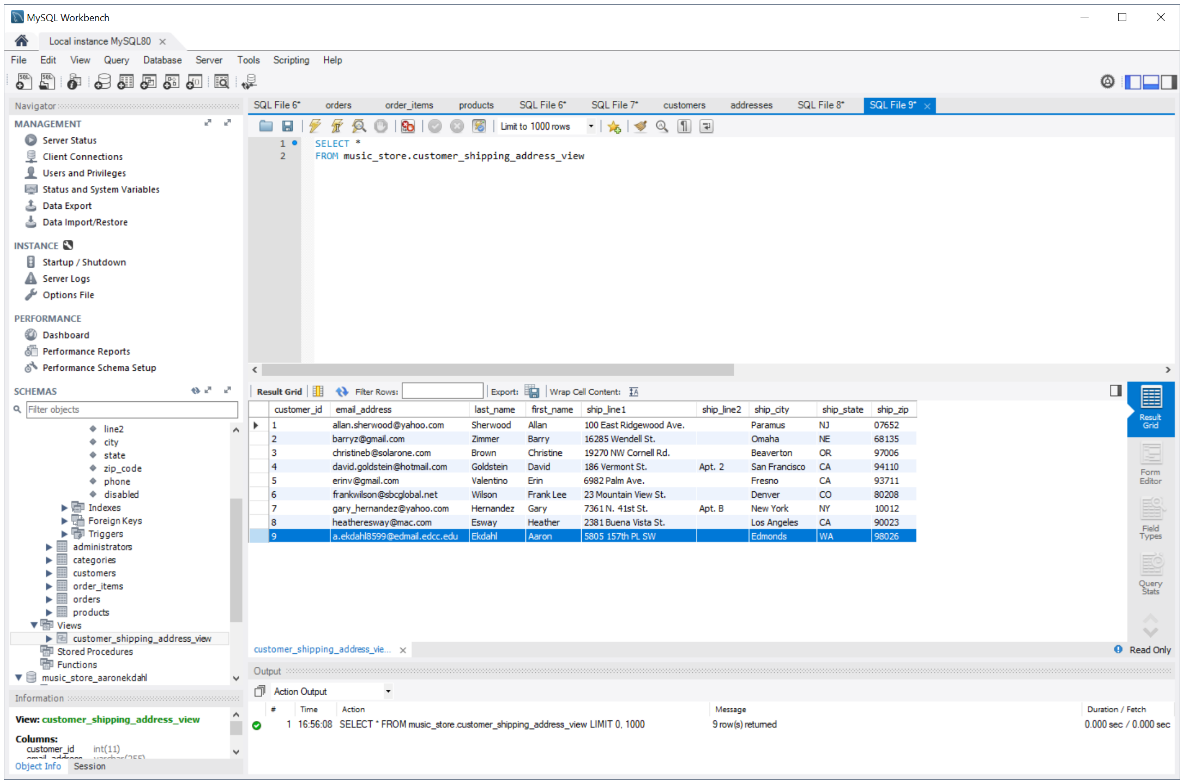
```sql
CREATE OR REPLACE VIEW customer_shipping_address_view AS
SELECT c.customer_id, c.email_address, c.last_name, c.first_name, a.line1 AS ship_line1, a.line2 AS ship_line2, a.city AS ship_city, a.state AS ship_s
FROM customers c
JOIN addresses a ON c.shipping_address_id = a.address_id
```

```
#  Time      Action                                                                         Message              Duration / Fetch
1  16:53:45  CREATE VIEW customer_shipping_address AS SELECT c.customer_id, c.email_address, ...  0 row(s) affected    0.046 sec
2  16:54:24  SELECT * FROM music_store.customer_shipping_address LIMIT 0, 1000                9 row(s) returned    0.016 sec / 0.000 sec
3  16:54:55  CREATE OR REPLACE VIEW customer_shipping_address_view AS SELECT c.customer_...    0 row(s) affected    0.031 sec
```

View: customer_shipping_address_view

Columns:
customer_id int(11)

Final Project Step 4 – Screenshot #6



```sql
SELECT *
FROM music_store.customer_shipping_address_view
```

customer_id	email_address	last_name	first_name	ship_line1	ship_line2	ship_city	ship_state	ship_zip
1	allan.sherwood@yahoo.com	Sherwood	Allan	100 East Ridgewood Ave.		Paramus	NJ	07652
2	barryz@gmail.com	Zimmer	Barry	16285 Wendell St.		Omaha	NE	68135
3	christineb@solarone.com	Brown	Christine	19270 NW Cornell Rd.		Beaverton	OR	97006
4	david.goldstein@hotmail.com	Goldstein	David	186 Vermont St.	Apt. 2	San Francisco	CA	94110
5	erinv@gmail.com	Valentino	Erin	6982 Palm Ave.		Fresno	CA	93711
6	frankwilson@sbcglobal.net	Wilson	Frank Lee	23 Mountain View St.		Denver	CO	80208
7	gary_hernandez@yahoo.com	Hernandez	Gary	7361 N. 41st St.	Apt. B	New York	NY	10012
8	heatheresway@mac.com	Esway	Heather	2381 Buena Vista St.		Los Angeles	CA	90023
9	a.ekdahl8599@edmail.edcc.edu	Ekdahl	Aaron	5805 157th PL SW		Edmonds	WA	98026

```
#  Time      Action                                                              Message             Duration / Fetch
1  16:56:08  SELECT * FROM music_store.customer_shipping_address_view LIMIT 0, 1000  9 row(s) returned   0.000 sec / 0.000 sec
```

View: customer_shipping_address_view

Columns:
customer_id int(11)