

Laura Summervill

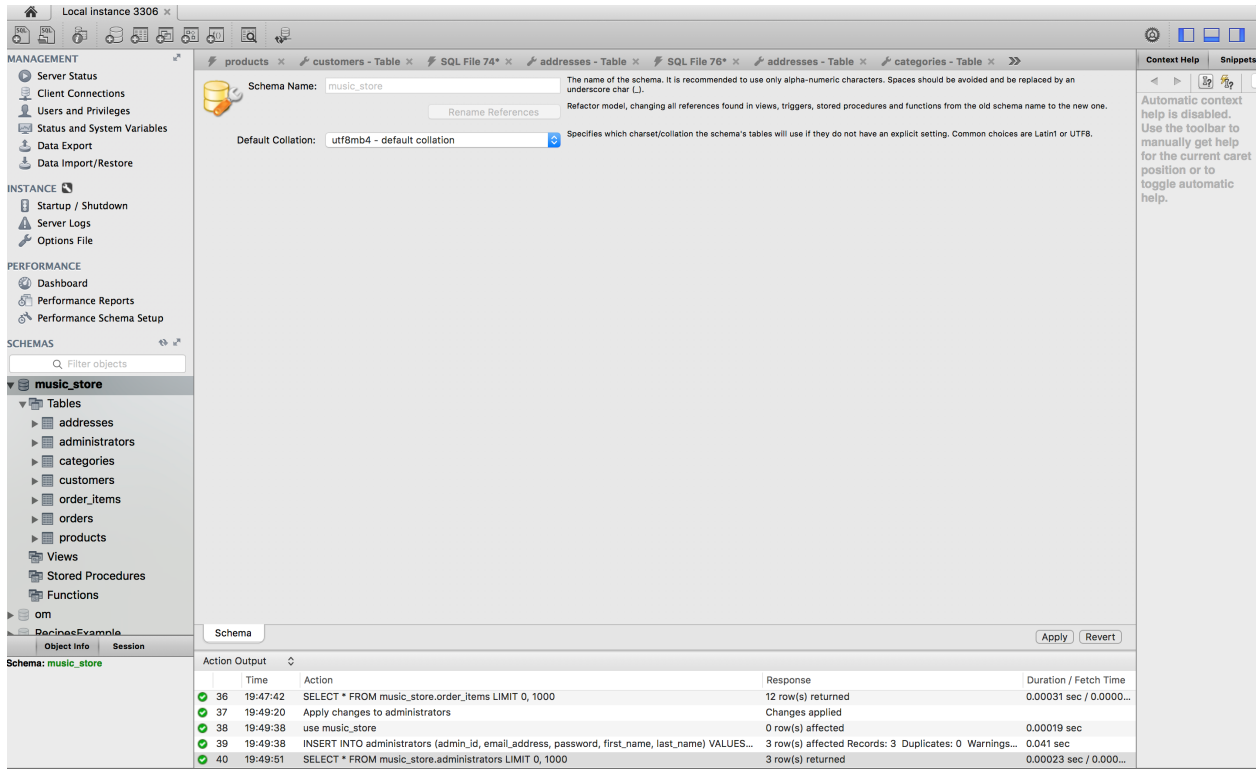
CIS 251 – Final Project

Step 1:

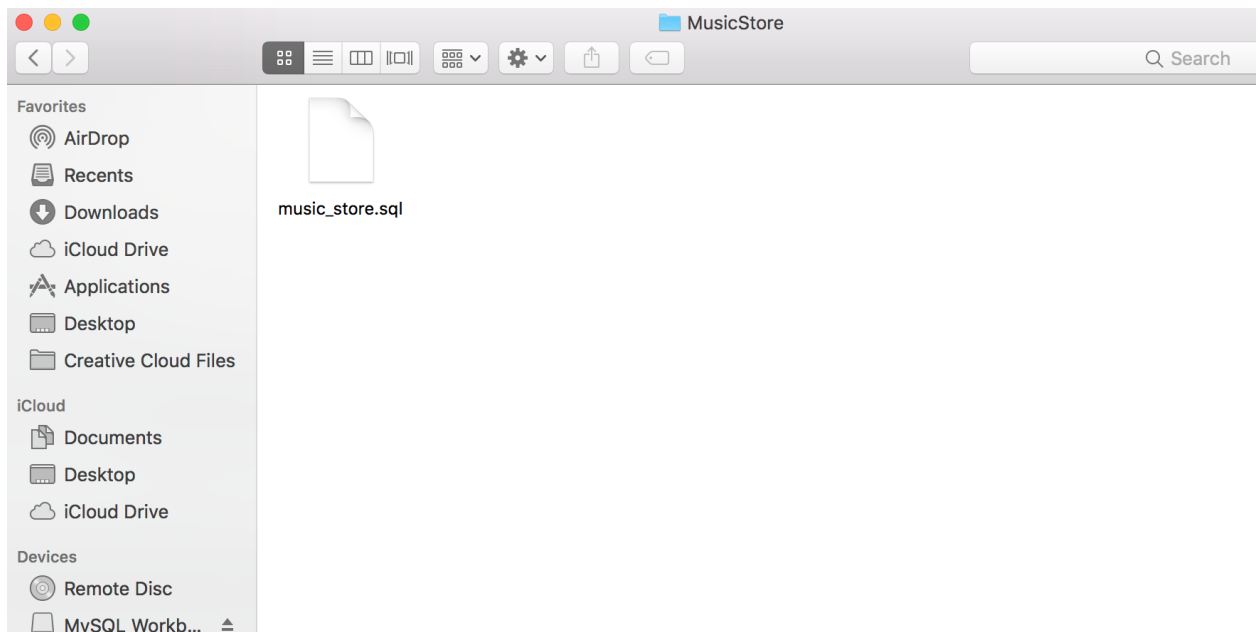
The screenshot displays the SQL Server Enterprise Manager interface for 'Local instance 3306'. The left-hand navigation pane is expanded to show the 'Schemas' section, with 'music_store' selected. The main pane shows the 'Schema Name' as 'music_store' and the 'Default Collation' as 'utf8mb4 - default collation'. The right-hand pane shows the 'Context Help' tab, which is currently disabled.

The 'Schema' tab at the bottom of the main pane shows a list of recent actions performed on the 'music_store' schema. The actions are as follows:

Action	Time	Response	Duration / Fetch Time
SELECT * FROM music_store.order_items LIMIT 0, 1000	19:47:42	12 row(s) returned	0.00031 sec / 0.0000...
Apply changes to administrators	19:49:20	Changes applied	
use music_store	19:49:38	0 row(s) affected	0.00019 sec
INSERT INTO administrators (admin_id, email_address, password, first_name, last_name) VALUES...	19:49:38	3 row(s) affected Records: 3 Duplicates: 0 Warnings...	0.041 sec
SELECT * FROM music_store.administrators LIMIT 0, 1000	19:49:51	3 row(s) returned	0.00023 sec / 0.000...



Step 2:



Untitled - MySQL Workbench

Local instance 3306 x MySQL Model* x EER Diagram x

MANAGEMENT

Server Status

Client Connections

Users and Privileges

Status and System Variables

Data Export

Data Import/Restore

INSTANCE

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Server Logs

Options File

PERFORMANCE

Dashboard

Performance Reports

Performance Schema Setup

SCHEMAS

Filter objects

music_store

Tables

administrators

categories

customers

order_items

orders

products

Object Info

Session

No object selected

order_items x SQL File 87* x SQL File 88* x SQL File 89* x ne

Local instance 3306

Data Export

Object Selection

Export Completed

Status:
7 of 7 exported.

Log:
Running: /private/var/folders/2c/3zp9phh12kbc_zz2__wj0ph00000gn/T/AppTranslocation
Contents/MacOS/mysqldump --defaults-file="/var/folders/2c/3zp9phh12kbc_zz2__wj0ph
protocol=tcp --port=3306 --default-character-set=utf8 --skip-triggers "music_store" "order
15:14:53 Export of /Users/laurasummervill/Documents/CIS 241/MusicStore has finished

17:38:47 Dumping music_store (all tables)
Running: /private/var/folders/2c/3zp9phh12kbc_zz2__wj0ph00000gn/T/AppTranslocation
Contents/MacOS/mysqldump --defaults-file="/var/folders/2c/3zp9phh12kbc_zz2__wj0ph
protocol=tcp --port=3306 --default-character-set=utf8 --skip-triggers "music_store"
17:38:48 Export of /Users/laurasummervill/dumps/music_store.sql has finished

17:39:51 Dumping music_store (all tables)
Running: /private/var/folders/2c/3zp9phh12kbc_zz2__wj0ph00000gn/T/AppTranslocation
Contents/MacOS/mysqldump --defaults-file="/var/folders/2c/3zp9phh12kbc_zz2__wj0ph
protocol=tcp --port=3306 --default-character-set=utf8 --skip-triggers "music_store"
17:39:51 Export of /Users/laurasummervill/Documents/CIS 241/music_store.sql has finis

Untitled - MySQL Workbench

Local instance 3306 x MySQL Model* x EER Diagram x

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SCHEMAS

Filter objects

music_store

- Tables
 - addresses
 - administrators
 - categories
 - customers
 - order_items
 - orders

Object Info Session

No object selected

Local instance 3306

Data Import

Import from Disk Import Progress

Import Completed

Status:
1 of 1 imported.

Log:

```
17:43:13 Restoring /Users/laurasummervill/Documents/CIS 241/MusicStore/music_store.sql
Running: /private/var/folders/2c/3zp9phh12kbc_zz2_wj0ph00000gn/T/AppTranslocation/B11264E1-7504-4013-BDEF-CDBB2FBFE04/d/MySQLWorkbench.app/Contents/MacOS/mysql --defaults-file=/var/folders/2c/3zp9phh12kbc_zz2_wj0ph00000gn/T/tmp0_CeLd/extraparams.cnf --protocol=tcp --host=localhost --user=root --port=3306 --default-character-set=utf8 --comments --database=music_store < "/Users/laurasummervill/Documents/CIS 241/MusicStore/music_store.s
17:43:14 Import of /Users/laurasummervill/Documents/CIS 241/MusicStore/music_store.sql has finished
```

Untitled - MySQL Workbench

Local instance 3306 x MySQL Model* x EER Diagram x

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- Users and Privileges
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INSTANCE

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- Performance Schema Setup

SCHEMAS

Filter objects

music_store

- music_store_Laura_Summervill
 - Tables
 - Views
 - Stored Procedures
 - Functions
- om
- RecipesExample

Object Info Session

Schema: music_store

Local instance 3306

Data Import

Import from Disk Import Progress

Import Completed

Status:
1 of 1 imported.

Log:

```
17:43:13 Restoring /Users/laurasummervill/Documents/CIS 241/MusicStore/music_store.sql
Running: /private/var/folders/2c/3zp9phh12kbc_zz2_wj0ph00000gn/T/AppTranslocation/B11264E1-7504-4013-BDEF-CDBB2FBFE04/d/MySQLWorkbench.app/Contents/MacOS/mysql --defaults-file=/var/folders/2c/3zp9phh12kbc_zz2_wj0ph00000gn/T/tmp0_CeLd/extraparams.cnf --protocol=tcp --host=localhost --user=root --port=3306 --default-character-set=utf8 --comments --database=music_store < "/Users/laurasummervill/Documents/CIS 241/MusicStore/music_store.s
17:43:14 Import of /Users/laurasummervill/Documents/CIS 241/MusicStore/music_store.sql has finished
```

Creating schema music_store_Laura_Summervill

```
17:45:38 Restoring /Users/laurasummervill/Documents/CIS 241/MusicStore/music_store.sql
Running: /private/var/folders/2c/3zp9phh12kbc_zz2_wj0ph00000gn/T/AppTranslocation/B11264E1-7504-4013-BDEF-CDBB2FBFE04/d/MySQLWorkbench.app/Contents/MacOS/mysql --defaults-file=/var/folders/2c/3zp9phh12kbc_zz2_wj0ph00000gn/T/tmp0x1JpM/extraparams.cnf --protocol=tcp --host=localhost --user=root --port=3306 --default-character-set=utf8 --comments --database=music_store_Laura_Summervill < "/Users/laurasummervill/Documents/CIS 241/MusicStore/music_store.sql"
17:45:39 Import of /Users/laurasummervill/Documents/CIS 241/MusicStore/music_store.sql has finished
```

Step 3:

[illegible]

Local instance 3306

MySQL Model

EER Diagram

SQL

File

Tools

Database

Tools

Tools

Tools

100%

1:1

products - Table

customers - Table

SQL File 74

addresses - Table

SQL File 76

addresses - Table

Context Help

Snippets

MANAGEMENT

Server Status

Client Connections

Users and Privileges

Status and System Variables

Data Export

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SCHEMAS

Filter objects

music_store

Tables

addresses

administrators

categories

customers

order_items

orders

Object Info

Session

Limit to 1000 rows

1

SELECT * FROM music_store.customers;

Result Grid

Filter Rows: Search

Edit

Export/Import:

customer_id

email_address

password

first_name

last_name

shipping_address

1

2

3

4

5

6

7

8

9

NULL

NULL

NULL

NULL

NULL

NULL

NULL

NULL

NULL

NULL

customers 1

Apply

Revert

Action Output

Time

Action

Response

Duration / Fetch Time

39

19:49:38

INSERT INTO administrators (admin_id, email_a...

3 row(s) affected Records: 3 Duplicates: 0 Warnings...

0.041 sec

40

19:49:51

SELECT * FROM music_store.administrators LI...

3 row(s) returned

0.00023 sec / 0.000...

41

15:33:30

use music_store

0 row(s) affected

0.00030 sec

42

15:33:30

INSERT INTO customers (customer_id, email_a...

1 row(s) affected

0.044 sec

43

15:34:22

SELECT * FROM music_store.customers LIMIT...

9 row(s) returned

0.00089 sec / 0.000...

Automatic content help is disabled. Use the toolbar to manually get help for the current caption or to toggle automatic help.

Result Grid

Form Editor

Field Types

products

customers - Table

SQL File 74*

addresses - Table

SQL File 76*

addresses - Table

Limit to 1000 rows

1

2

3

4

```

use music_store;

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

```

100%

50:4

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 1	15:43:58	use music_store	0 row(s) affected	0.00019 sec
✓ 2	15:43:58	INSERT INTO orders (order_id, customer_id, or...	1 row(s) affected	0.033 sec

products × customers - Table × SQL File 74* × addresses - Table × SQL File 76* × addresses - Table × >>>

Limit to 1000 rows

1 • `SELECT * FROM music_store.orders;`

100% 1:1

Result Grid

Filter Rows:

Edit:

Export/Import:

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

orders 1

Apply Revert

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 1	15:43:58	use music_store	0 row(s) affected	0.00019 sec
✓ 2	15:43:58	INSERT INTO orders (order_id, customer_id, or...	1 row(s) affected	0.033 sec
✓ 3	15:44:34	SELECT * FROM music_store.orders LIMIT 0, 10...	10 row(s) returned	0.00026 sec / 0.000...

Auto help | Use the manual for the positive toggle help.

Administration - Data Export x SQL File 83* x customers x SQL File 84* x addresses

Limit to 1000 rows

1 • `SELECT * FROM music_store.order_items;`

100% 1:1

Result Grid Filter Rows: Search Edit: Export/Import:

item_id	order_id	product_id	item_price	discount_amount	quantity
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

order_items 1

Action Output

	Time	Action	Response
✓ 1	15:48:42	use music_store	0 row(s) affected
✓ 2	15:48:42	INSERT INTO order_items (item_id, order_id, pr...	1 row(s) affected
✓ 3	15:48:53	SELECT * FROM music_store.order_items LIMIT...	13 row(s) returned

Administration - Data Export
SQL File 83*
customers
SQL File 84*
addresses
SQL File 85*

Limit to 1000 rows

1
2
3
4
5
6
7
8
9
10

```

use music_store;
SELECT first_name, last_name, order_date, product_name, item_price, discount_amount, quantity
FROM customers JOIN orders
ON customers.customer_id = orders.customer_id
JOIN order_items ON orders.order_id = order_items.order_id
JOIN products ON order_items.product_id = products.product_id

```

100%
66:6

Result Grid
Filter Rows:
Search
Export:

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

Result Grid
Form Editor
Field Types

Result 3
Read Only

Action Output

	Time	Action	Response	Duration / Fetch Time
4	16:05:17	SELECT first_name, last_name, line1, city, state...	1 row(s) returned	0.00036 sec / 0.000...
5	16:06:13	use music_store	0 row(s) affected	0.00020 sec
6	16:06:13	SELECT first_name, last_name, line1, city, state...	13 row(s) returned	0.00044 sec / 0.000...

Step 4:

The screenshot shows a SQL IDE interface with a query editor and a results grid. The query editor contains the following SQL code:

```
1 use music_store;
2
3 SELECT email_address, SUM(item_price * quantity) AS item_price_total
4 FROM customers c
5 JOIN orders o
6 ON c.customer_id = o.customer_id
7 JOIN order_items oi ON o.order_id = oi.order_id
8 GROUP BY email_address
9 ORDER BY email_address|
10
11
```

The results grid displays the following data:

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
lauraannsummervill@gmail.com	1000.00

orders x SQL File 86* x order_items x SQL File 87* x SQL File 8

Limit to 1000 rows

1 •

2

3 •

4

5

6

7

8

9

10

use music_store:

Execute the selected portion of the script or everything, if there is no selection

d) AS order_count

FROM customers c

JOIN orders o

ON c.customer_id = o.customer_id

GROUP BY email_address

ORDER BY email_address

100%

33:6

Result Grid

Filter Rows:

Search

Export:

email_address	order_count
▶ 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
lauraannsummervill@gmail.com	1

Limit to 1000 rows

1

2

3

4

5

6

7

8

9

10

11

use music store:

Execute the selected portion of the script or everything, if there is no selection

```
SELECT email_address, COUNT(order_id) AS order_count

FROM customers c
JOIN orders o
ON c.customer_id = o.customer_id
GROUP BY email_address

HAVING order_count = 1
```

100%

23:11

Result Grid

Filter Rows:

Export:

email_address	order_count	
▶ barryz@gmail.com	1	
christineb@solarone.com	1	
erinv@gmail.com	1	
frankwilson@sbcglobal.net	1	
gary_hernandez@yahoo.com	1	
lauraannsummervill@gmail.com	1	

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SCHEMAS

Filter objects

Triggers

Views

- customer_shipping_a...
- Stored Procedures
- Functions

om

RecipesExample

SalesOrdersExample

Object Info

Session

Schema: music_store

order_items x SQL File 87* x SQL File 88* x SQL File 89* x new_view - View x SQL File 90* >>

Limit to 1000 rows

1

2

3

4

5

6

7

8

9

10

use music_store;

CREATE OR REPLACE VIEW customer_shipping_address_view

AS

SELECT c.customer_id, email_address, last_name, first_name,

sa.line1 AS ship_line1, sa.line2 AS ship_line2,

sa.city AS ship_city, sa.state AS ship_state, sa.zip_code AS ship_zip

FROM customers c

JOIN addresses sa ON c.shipping_address_id = sa.address_id

ORDER BY last_name, first_name

100%

31:10

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 1	17:23:00	use music_store	0 row(s) affected	0.00018 sec
✓ 2	17:23:00	CREATE OR REPLACE VIEW customer_shipping...	0 row(s) affected	0.078 sec

MANAGEMENT

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Filter objects

Triggers

Views

- customer_shipping_a...
- Stored Procedures
- Functions

om

RecipesExample

SalesOrdersExample

Object Info

Session

Schema: music_store

order_items x SQL File 87* x SQL File 88* x SQL File 89* x new_view - View x SQL File 90* >>

Limit to 1000 rows

1

2

3

4

5

6

7

8

9

10

use music_store;

CREATE OR REPLACE VIEW customer_shipping_address_view

AS

SELECT c.customer_id, email_address, last_name, first_name,

sa.line1 AS ship_line1, sa.line2 AS ship_line2,

sa.city AS ship_city, sa.state AS ship_state, sa.zip_code AS ship_zip

FROM customers c

JOIN addresses sa ON c.shipping_address_id = sa.address_id

ORDER BY last_name, first_name

100%

31:10

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 1	17:23:00	use music_store	0 row(s) affected	0.00018 sec
✓ 2	17:23:00	CREATE OR REPLACE VIEW customer_shipping...	0 row(s) affected	0.078 sec