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| **Cinema Management System** |

**Contents**

[1. Project Definition: 2](#_Toc72967345)

[2. Project ERD: 3](#_Toc72967346)

[3. Schema: 4](#_Toc72967347)

[4. Project TABLE CREATE 5](#_Toc72967348)

[4.2. Create Table Admin 6](#_Toc72967353)

[4.3. Create Table Shows 7](#_Toc72967354)

[4.4. Create Table Theater 8](#_Toc72967355)

[4.5. Create Table Movie 9](#_Toc72967356)

[4.6. Create Table Seats 10](#_Toc72967357)

[4.7. Create Table Ticket 11](#_Toc72967358)

[4.8. Create Table Ticket\_location 12](#_Toc72967359)

[5. Project TABLE INSERT 13](#_Toc72967360)

[5.1 Insert Into Admin Table 13](#_Toc72967365)

[5.2 Insert Into Shows Table (Start Time And End Time) 14](#_Toc72967366)

[5.3 Insert Into Theater Table Theater Name 15](#_Toc72967367)

[5.4 Insert Into Movie Table (Movie Name & ID) 16](#_Toc72967368)

[5.5 Insert Into Seats Table 17](#_Toc72967369)

[5.6 Insert Into Ticket Table 18](#_Toc72967370)

[5.7 Insert Into Ticket\_location Table 19](#_Toc72967371)

[6 Project TABLE GROUP BY & JOIN 20](#_Toc72967372)

[6.1 GROUP BY Admin\_ID 20](#_Toc72967373)

[6.2 GROUP AVG Price BY Admin\_ID 21](#_Toc72967374)

[6.3 GROUP Sum Price BY Admin\_ID 22](#_Toc72967375)

[6.4 JOIN Movie Table and Show Table BY Show\_ID 23](#_Toc72967376)

[6.5 INNER JOIN Seats ON Theater 24](#_Toc72967377)

# **Project Definition:**

Our project represents a simple database of a cinema management system.

**We have the main entities that are present in such a system with their respective attributes:**

* Admin

(Who controls the system at the ticket window)

* Shows

(Represents the show ID, start and end time)

* Theater

(Represents the theater ID and the theater name)

* Movie

(Represents the available show that has the movie ID, the movie name)

* Seats

(Represents the seat ID that belongs to the theater)

* Ticket

(Represents the whole data on the ticket: ticket ID, the date they booked the ticket, the seat number, the ticket price, which admin reserves the ticket, the chosen show and which theater will present the movie)

* Ticket\_location

(Describes the location of the theater place in the hall, all along the ticket ID and which admin has booked the ticket)

**Our project has the following relationships:**

* An admin can book more than one ticket.
* A theater can have more than one ticket.
* A show can have more than one ticket.
* A theater has many seats.
* A show can have more than one movie.

# **Project ERD:**

Figure 1 - Cinema Management System ERD

# **Schema:**

**Admin (**admin\_id, admin\_name, admin\_age, admin\_address**)**

**Shows (**show\_id**,** end\_time**,** start\_time**)**

**Movie (**movie\_id**,** movie\_name**,** show\_idFK**)**

**Theater (**theater\_id**,** theater\_name**)**

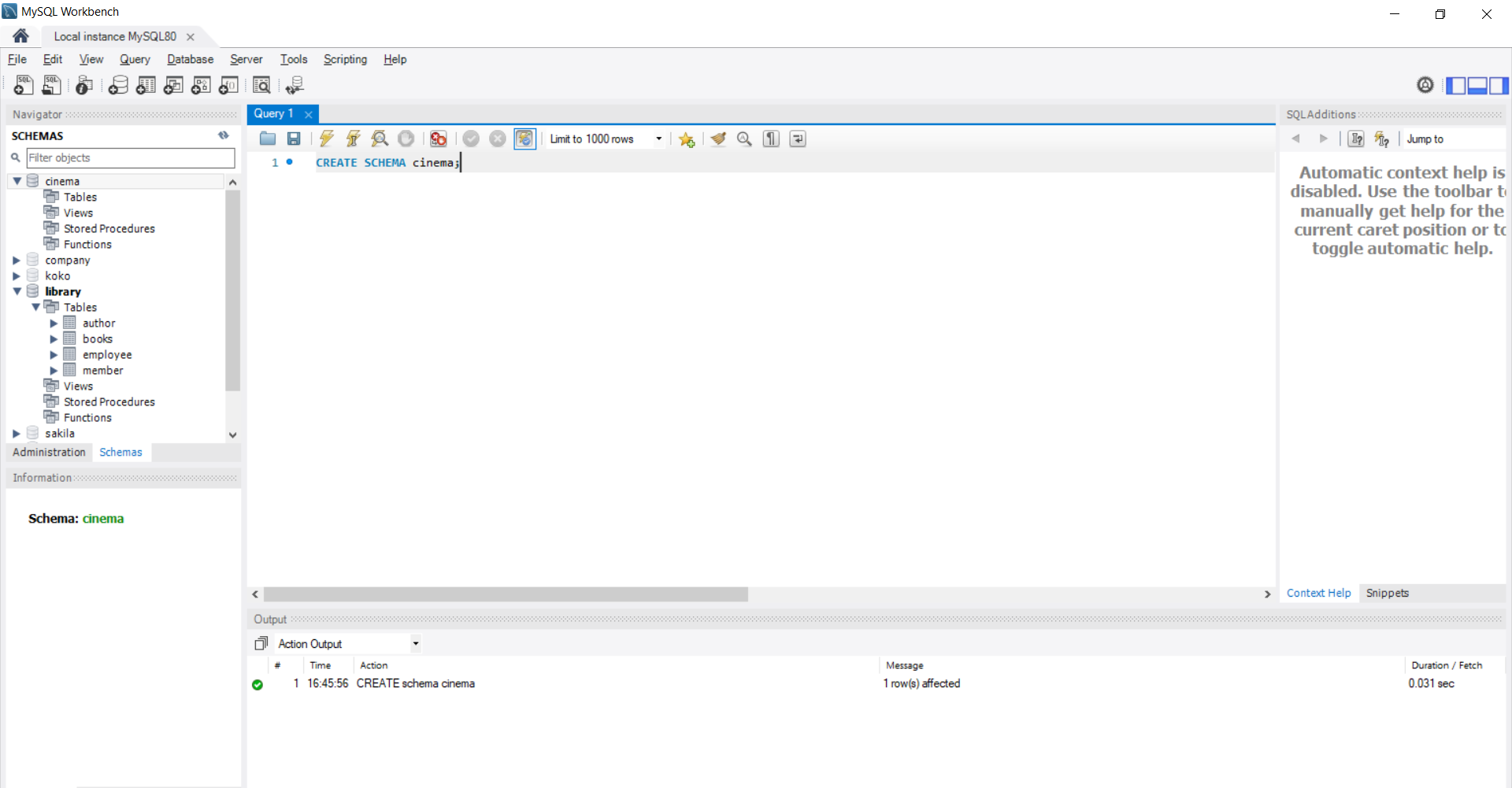
**Seats (**seat\_id**,** theater\_idFK**)**

**Ticket (**ticket\_id**,** booking\_date**,** seat\_no**,** price**,** admin\_idFK**,** show\_idFK**,** theater\_idFK**)**

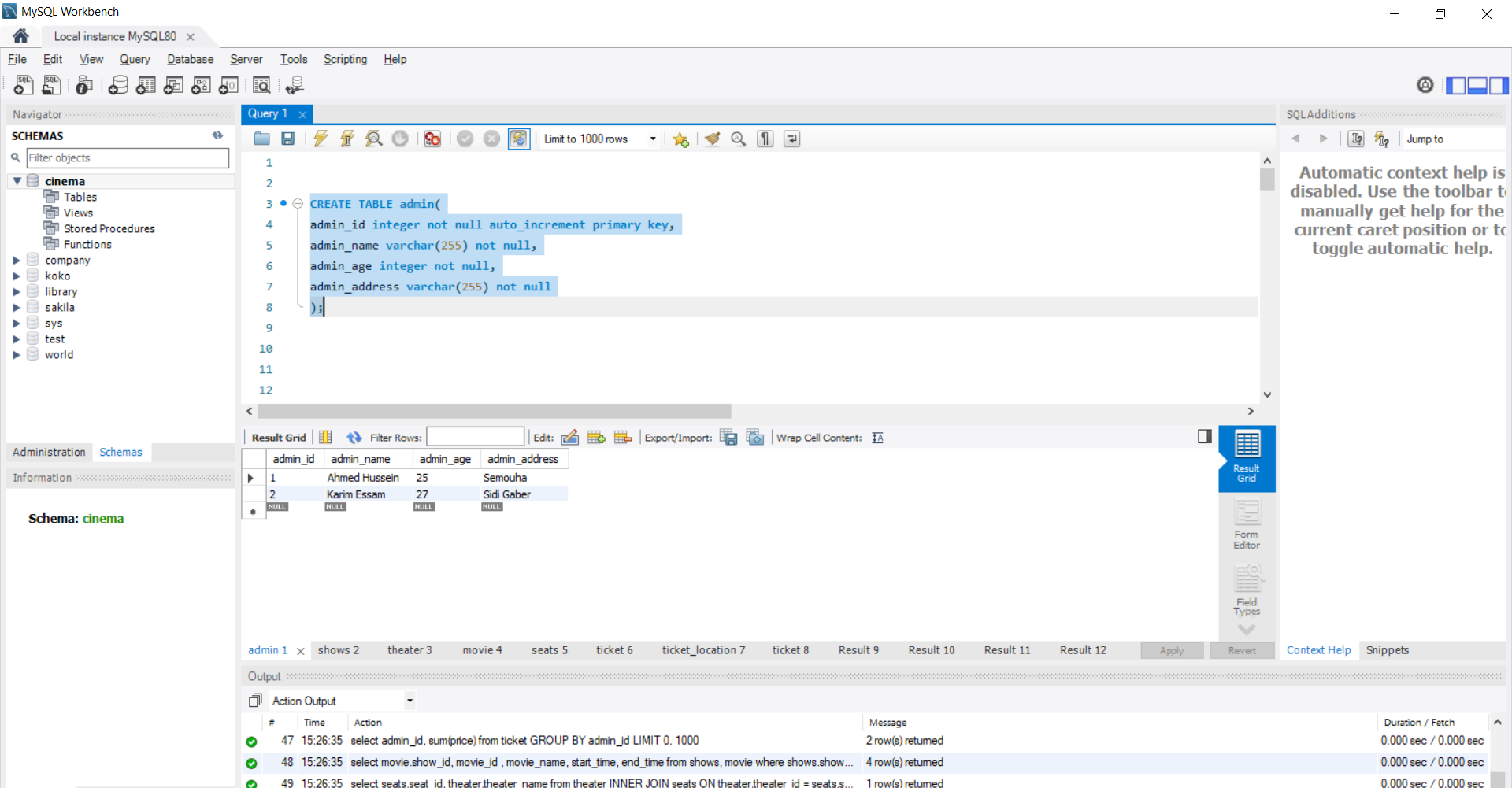
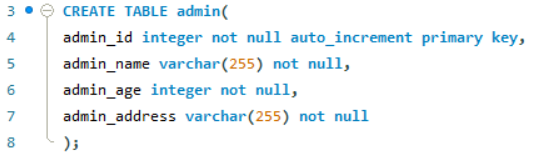
**Ticket\_location (**hall\_location**,** ticket\_id**)**

# **Project TABLE CREATE**

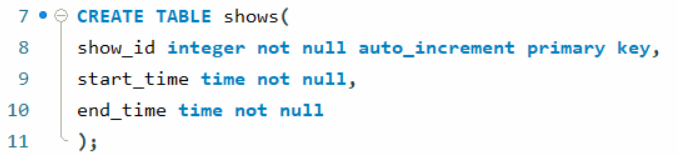
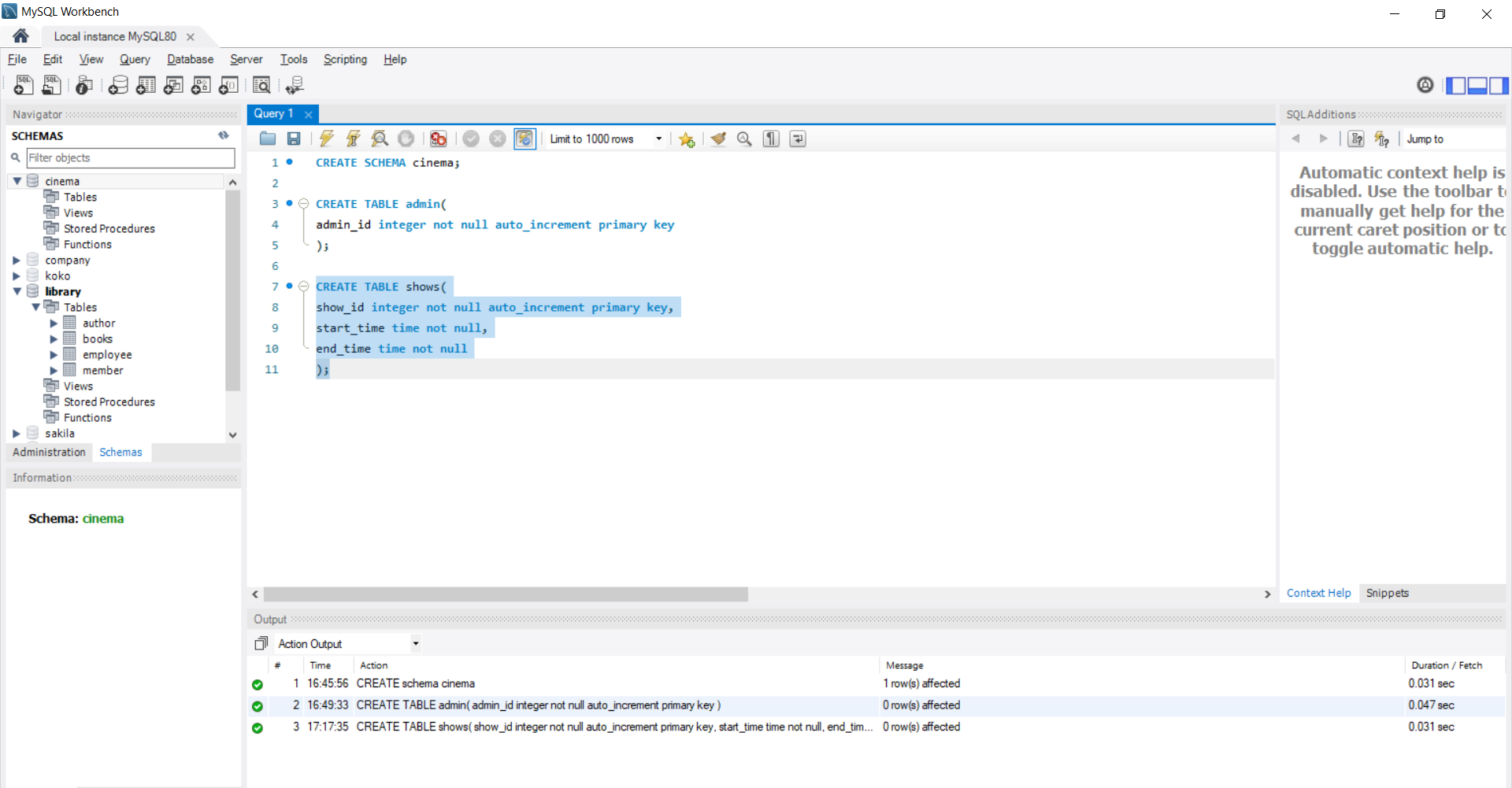
4. 1. **Create Database Schema**

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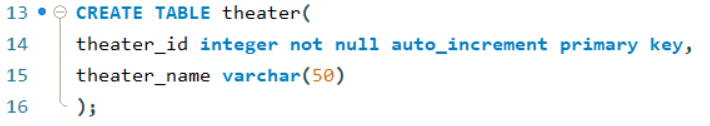
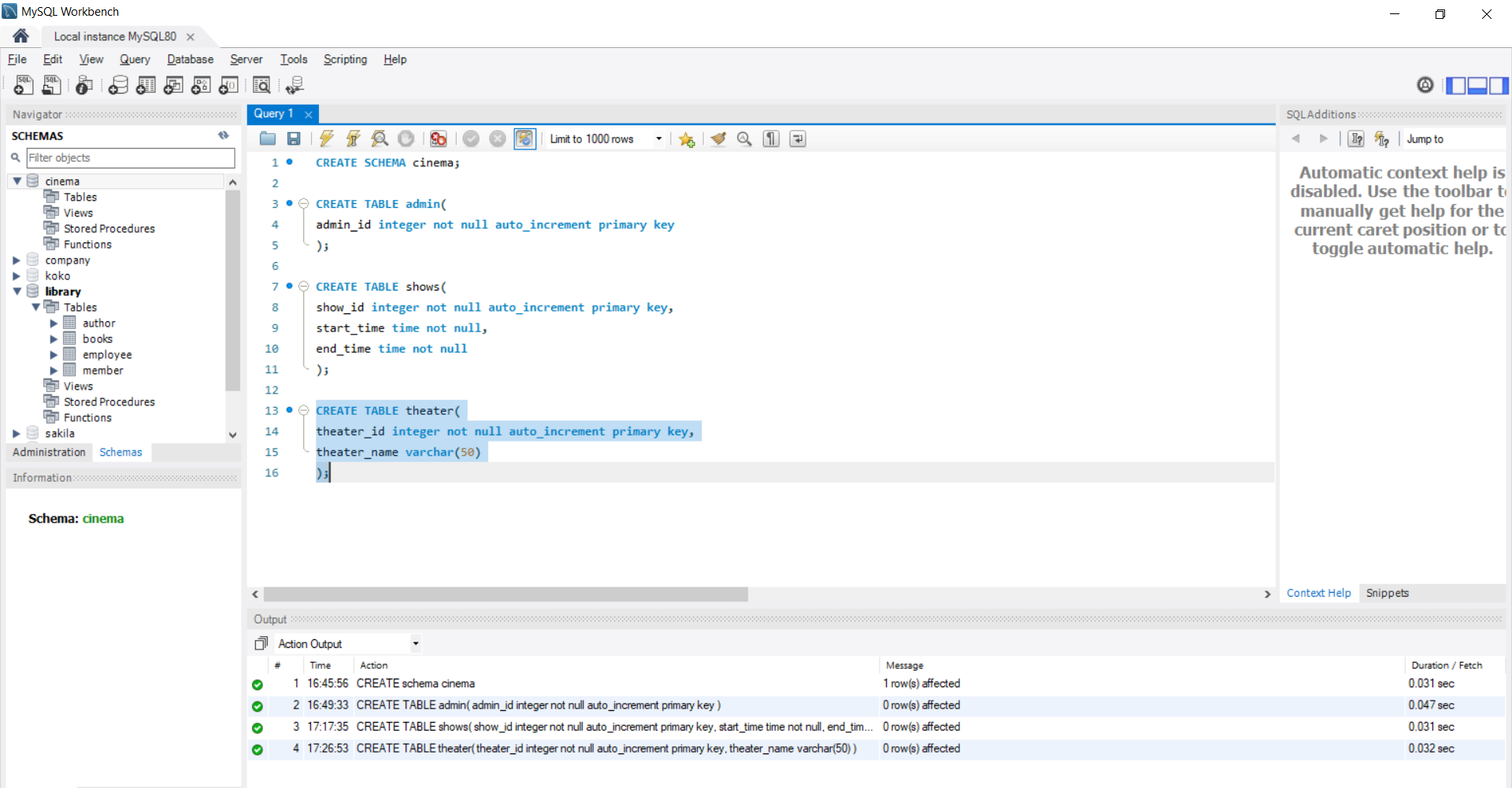
## **Create Table Admin**

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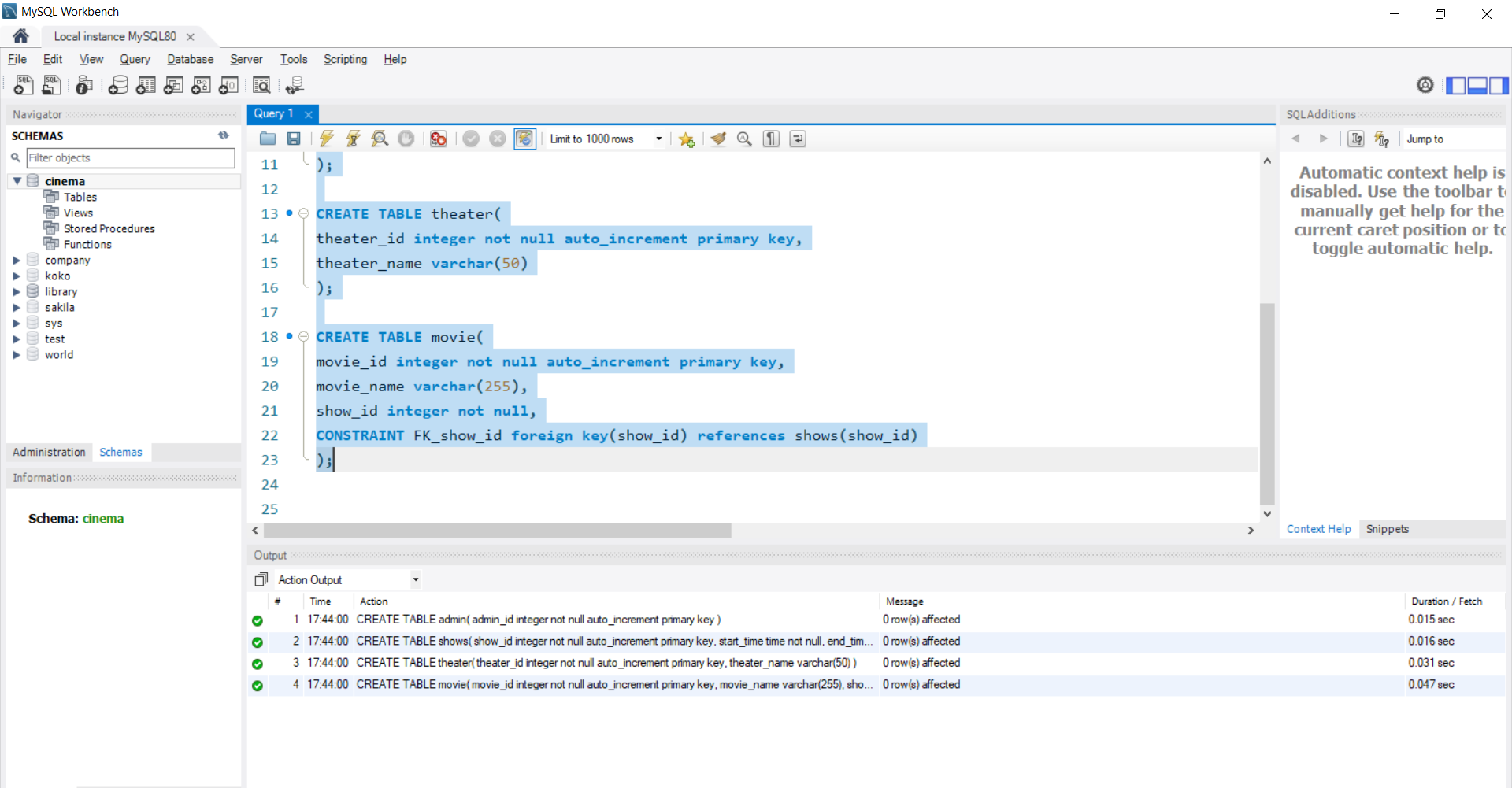
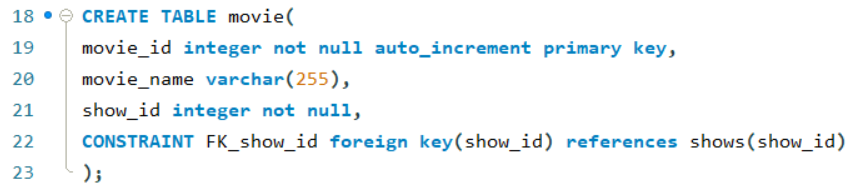
## **Create Table Shows**

****

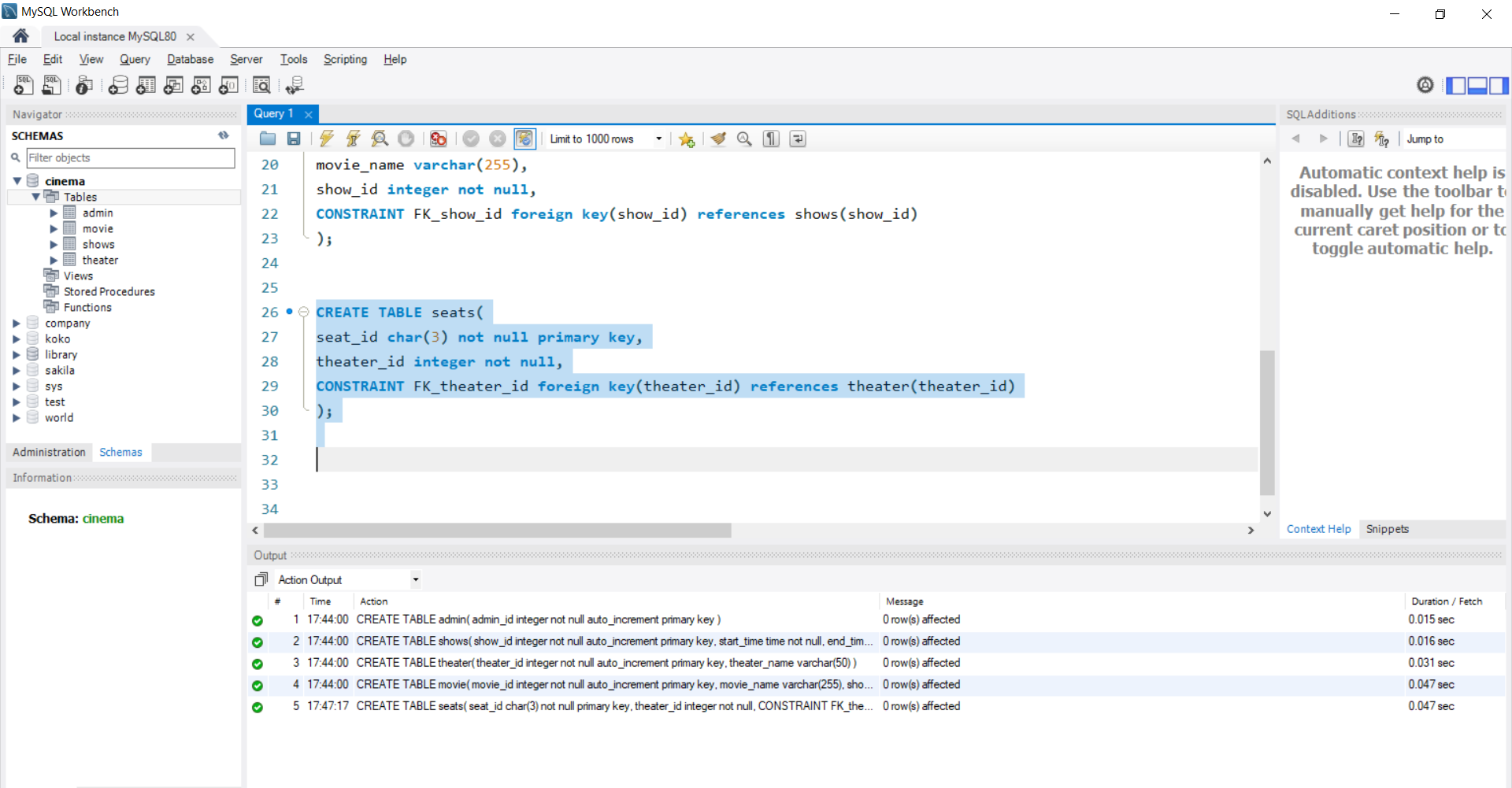
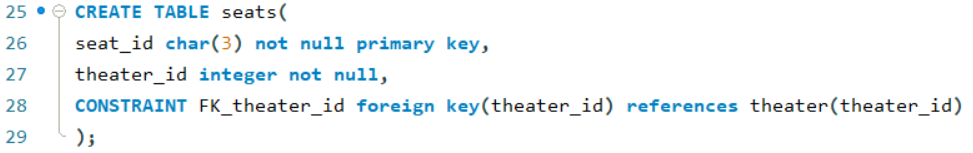
## **Create Table Theater**

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## **Create Table Movie**

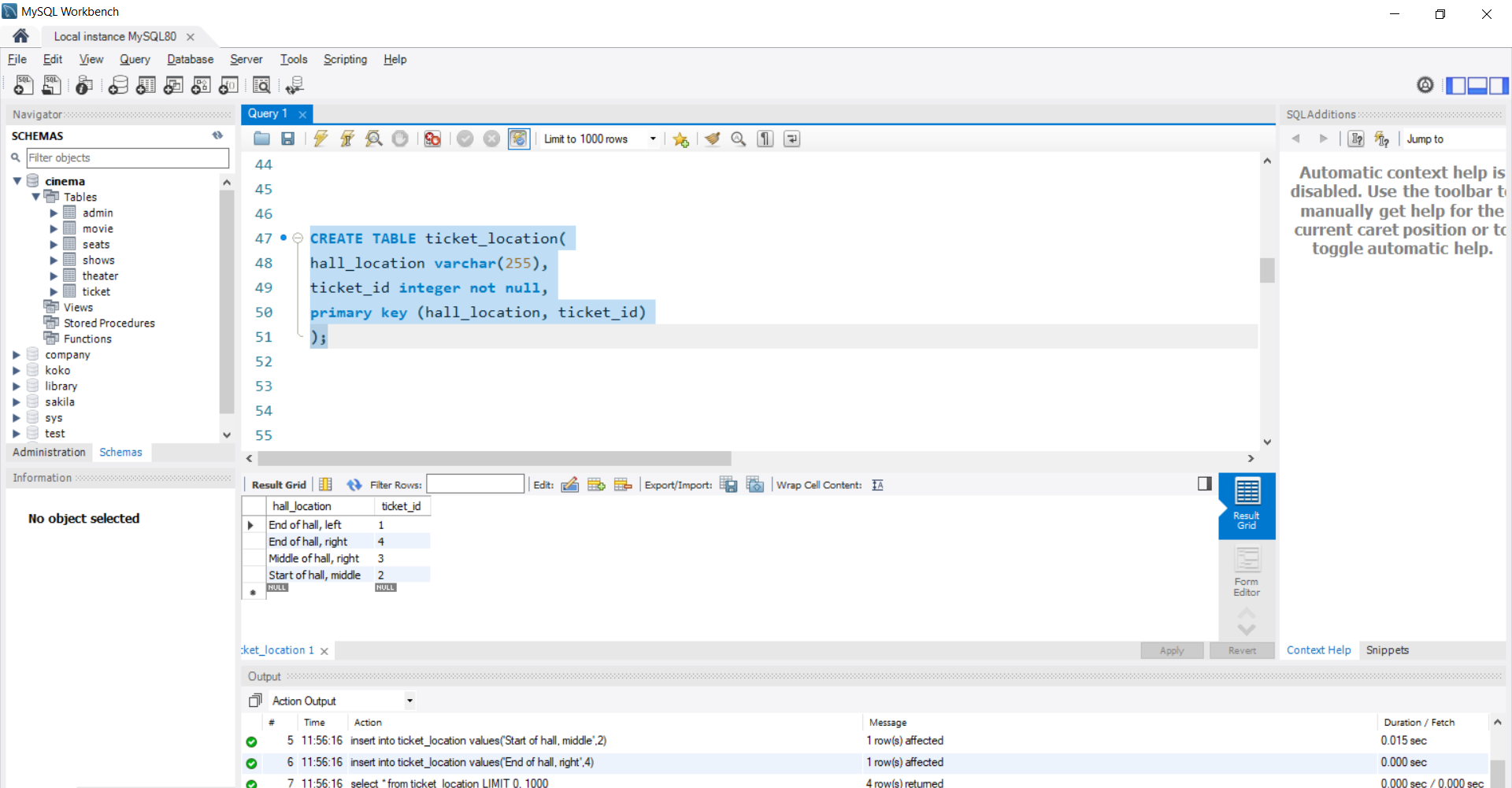
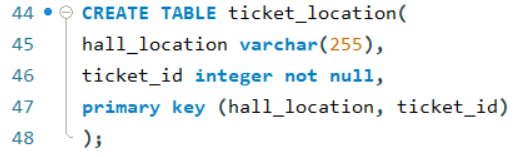
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## **Create Table Seats**

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## **Create Table Ticket**

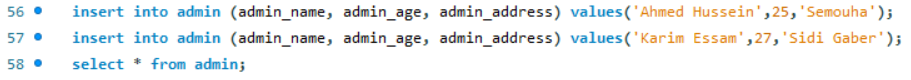
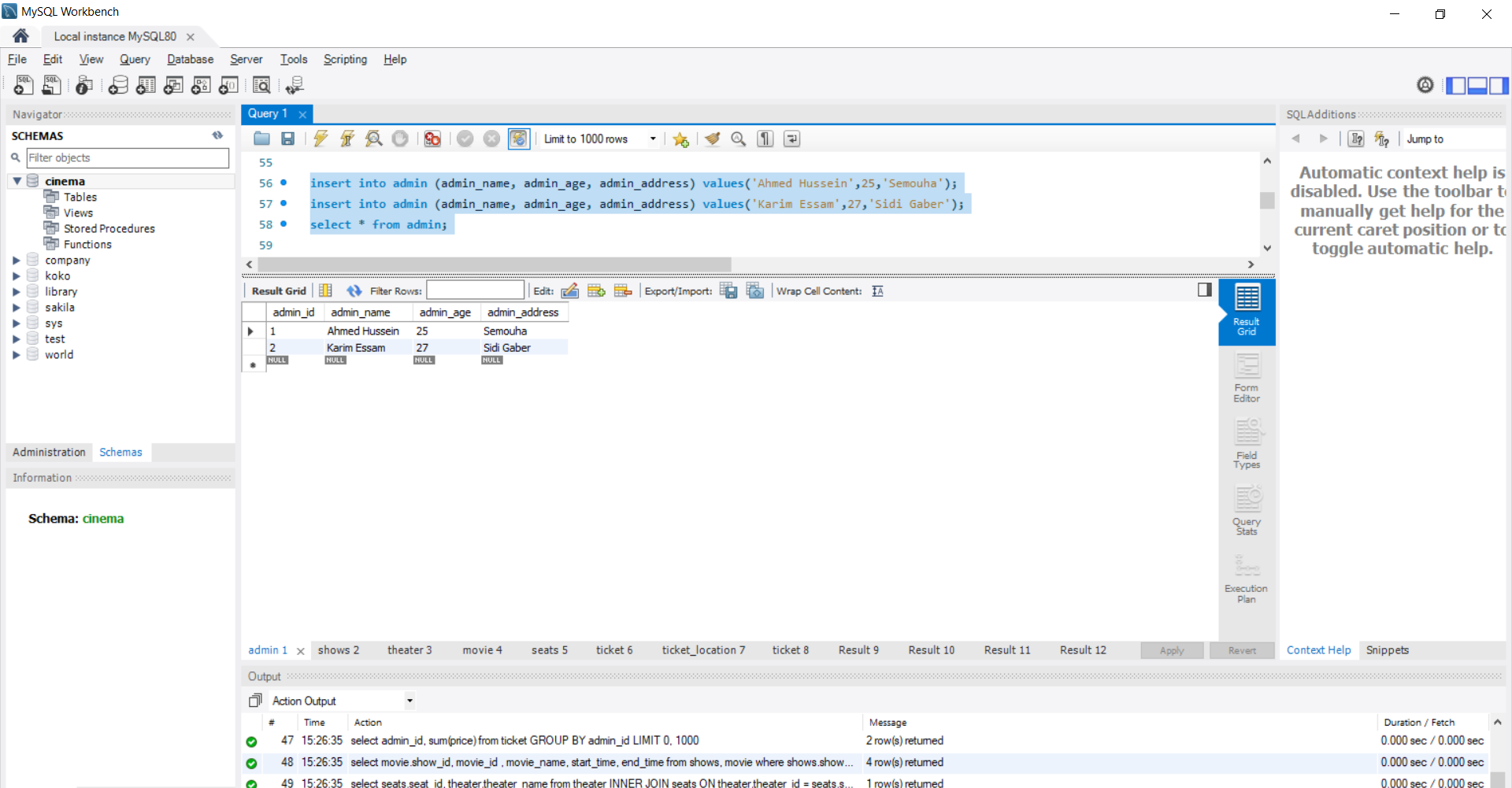
## **Create Table Ticket\_location**

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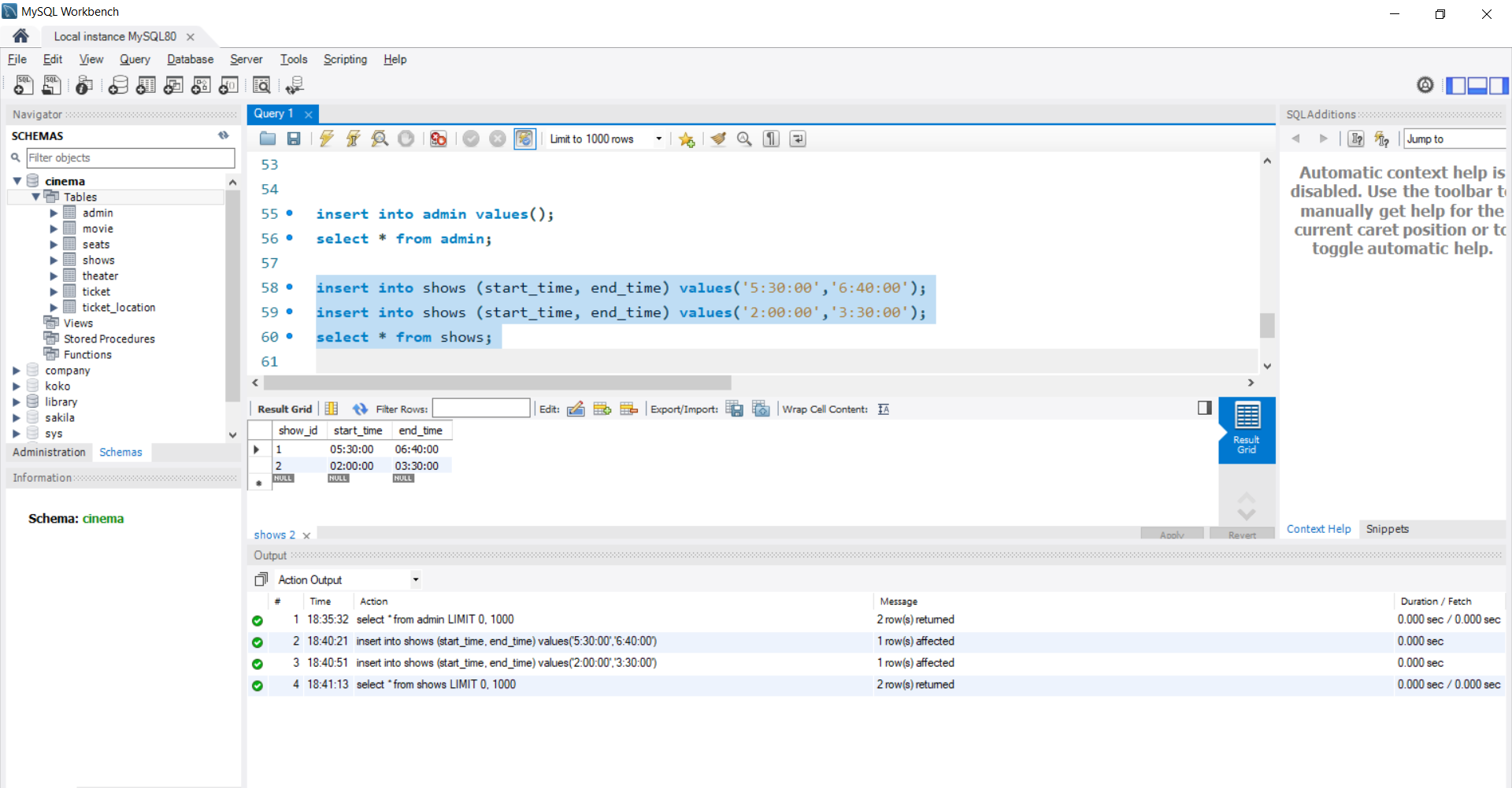
# **Project TABLE INSERT**



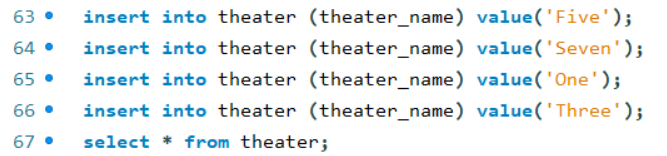
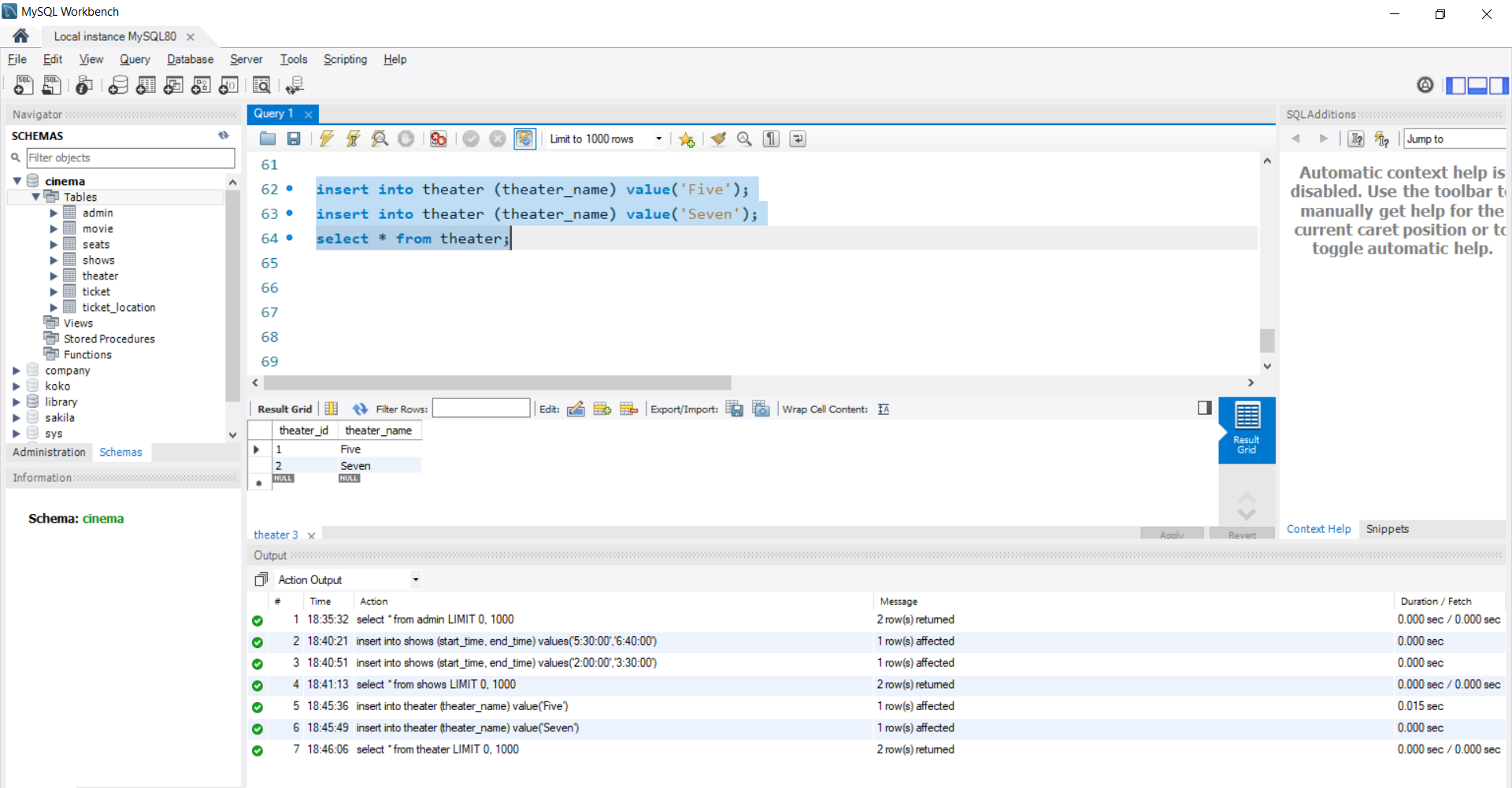
## **Insert Into Admin Table**

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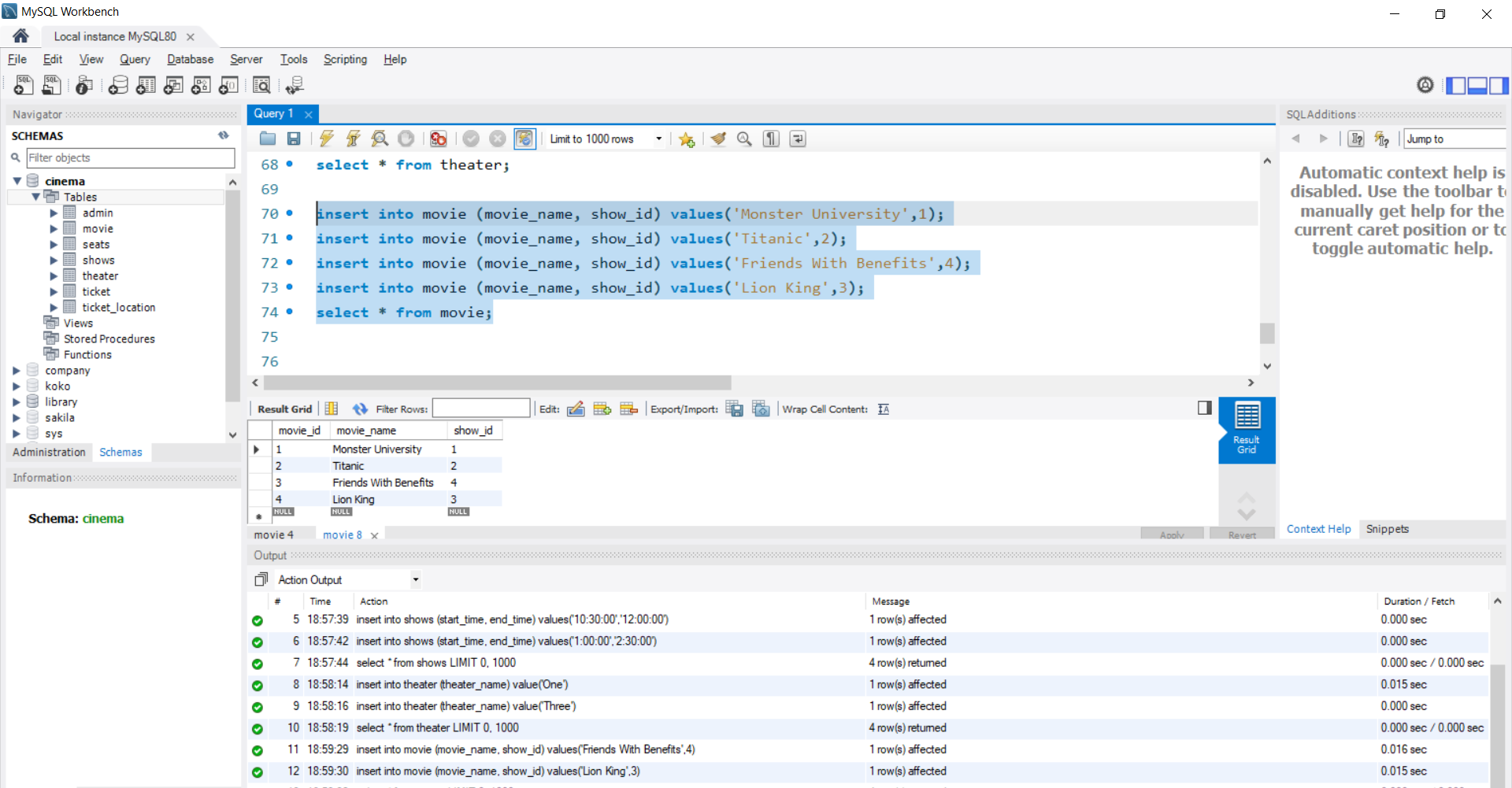
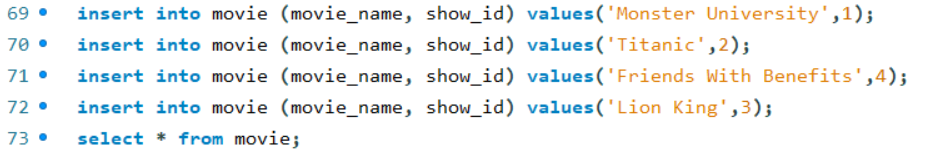
## **Insert Into Shows Table (Start Time And End Time)**

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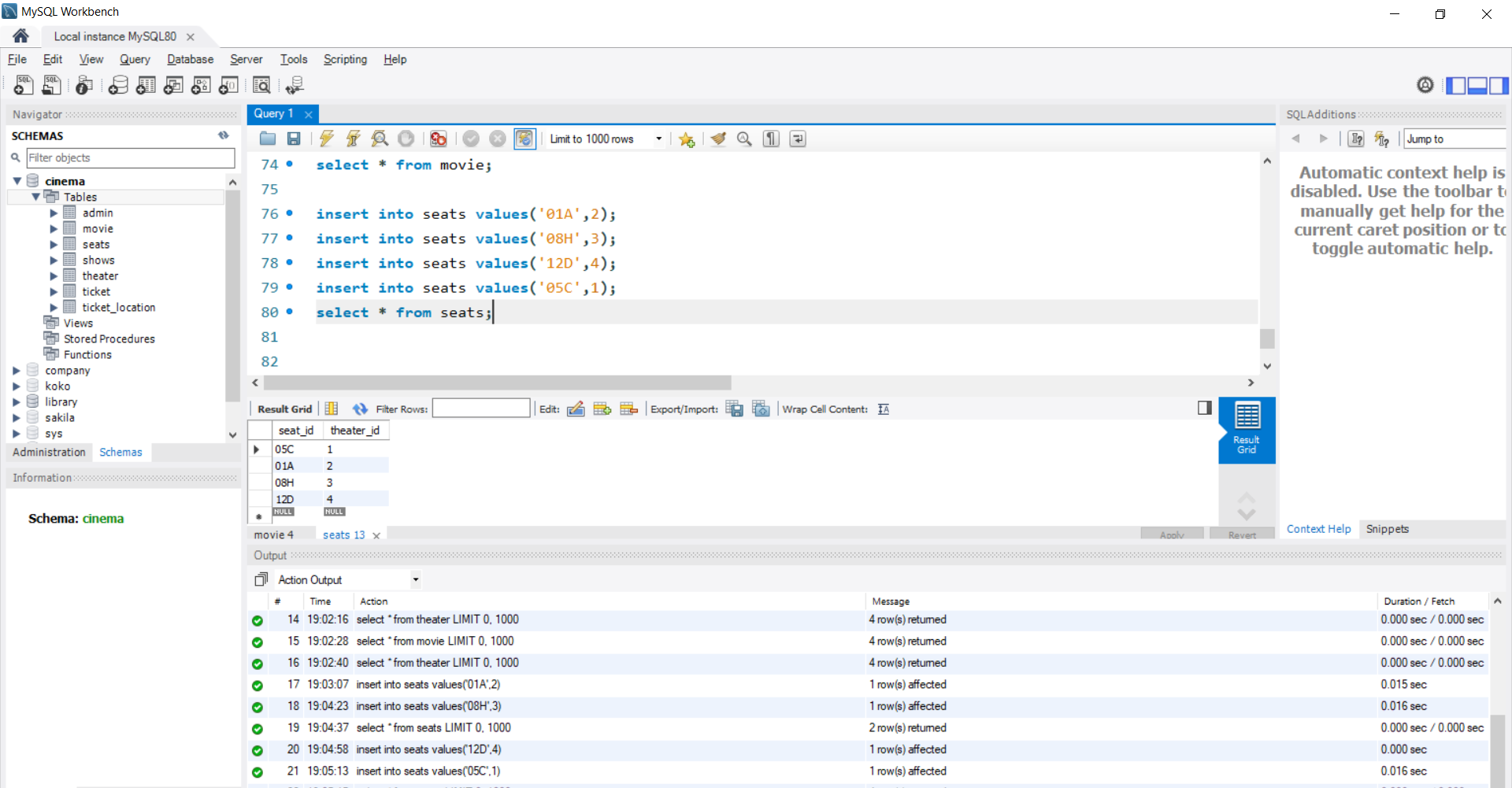
## **Insert Into Theater Table Theater Name**

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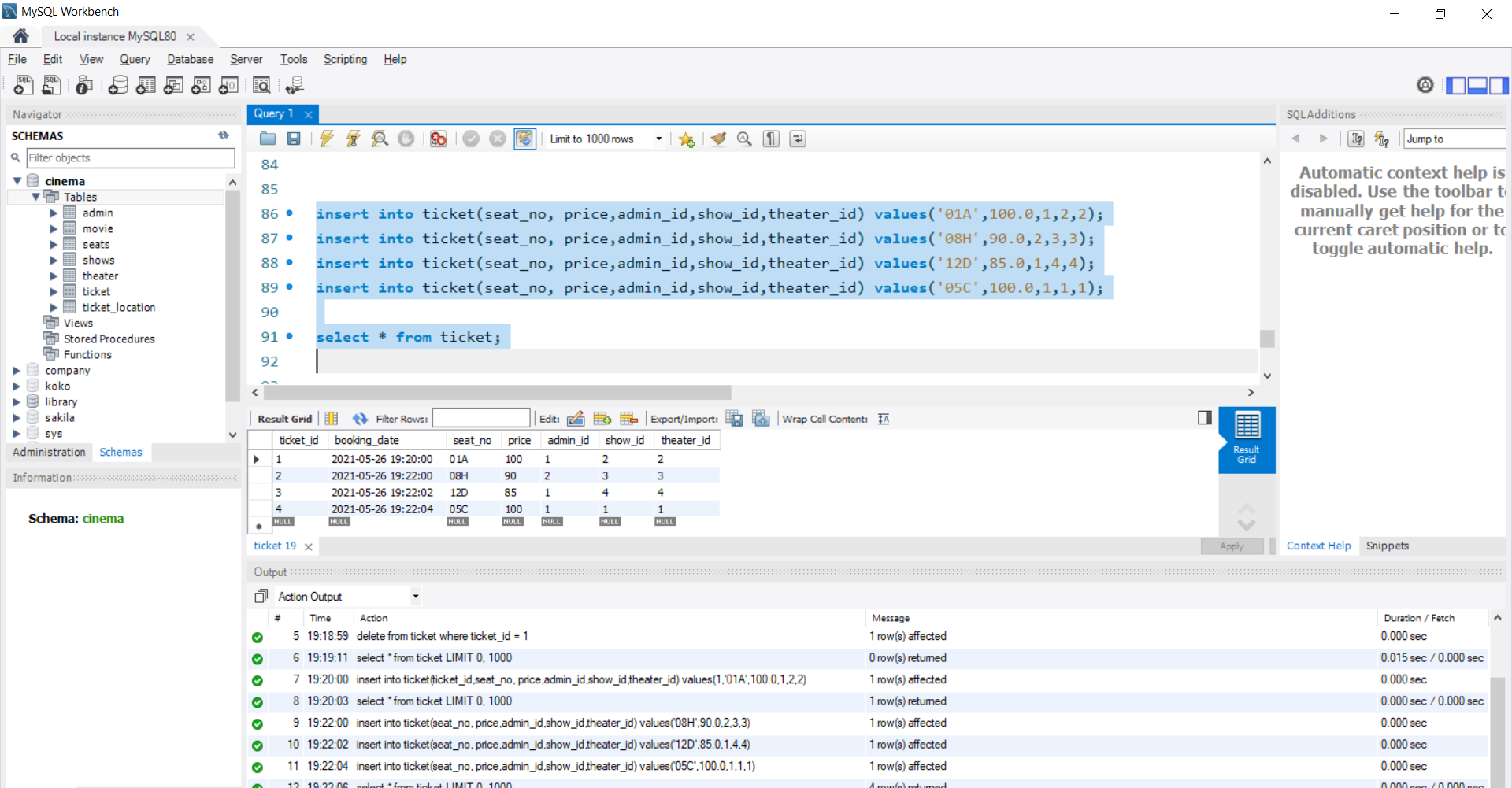
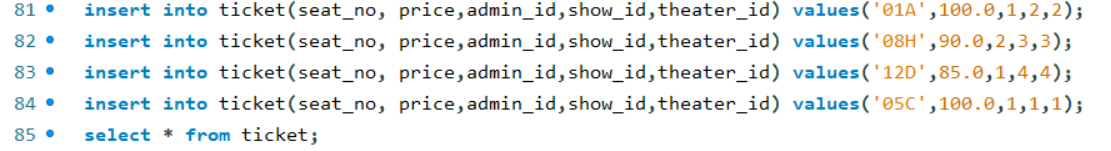
## **Insert Into Movie Table (Movie Name & ID)**

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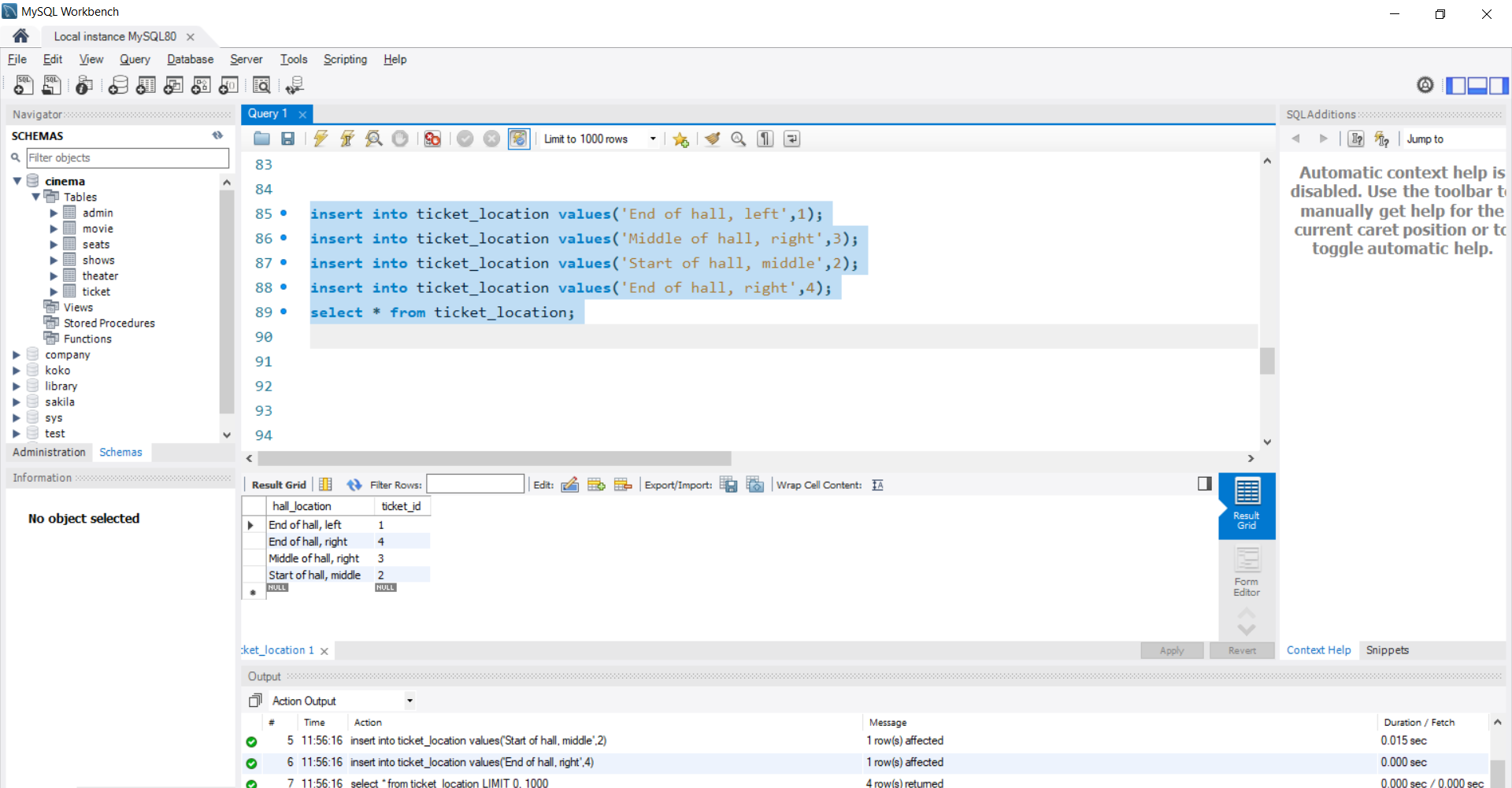
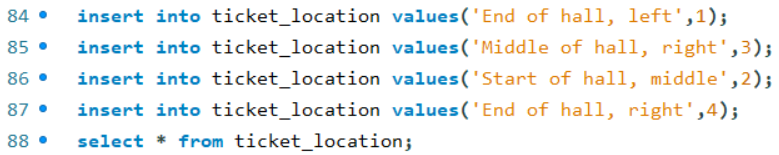
## **Insert Into Seats Table**

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## **Insert Into Ticket Table**

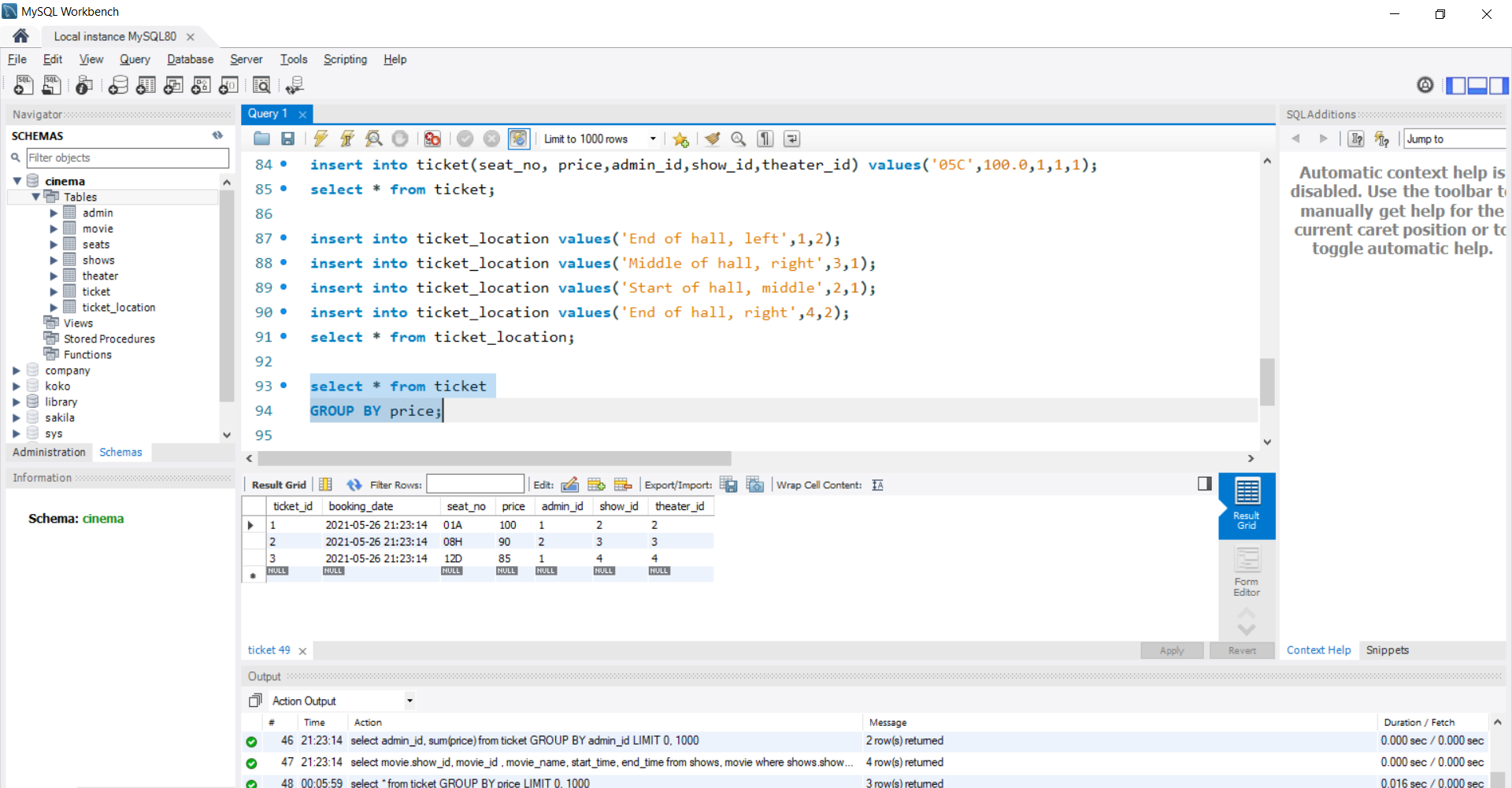
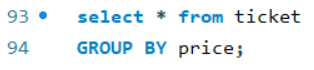
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## **Insert Into Ticket\_location Table**

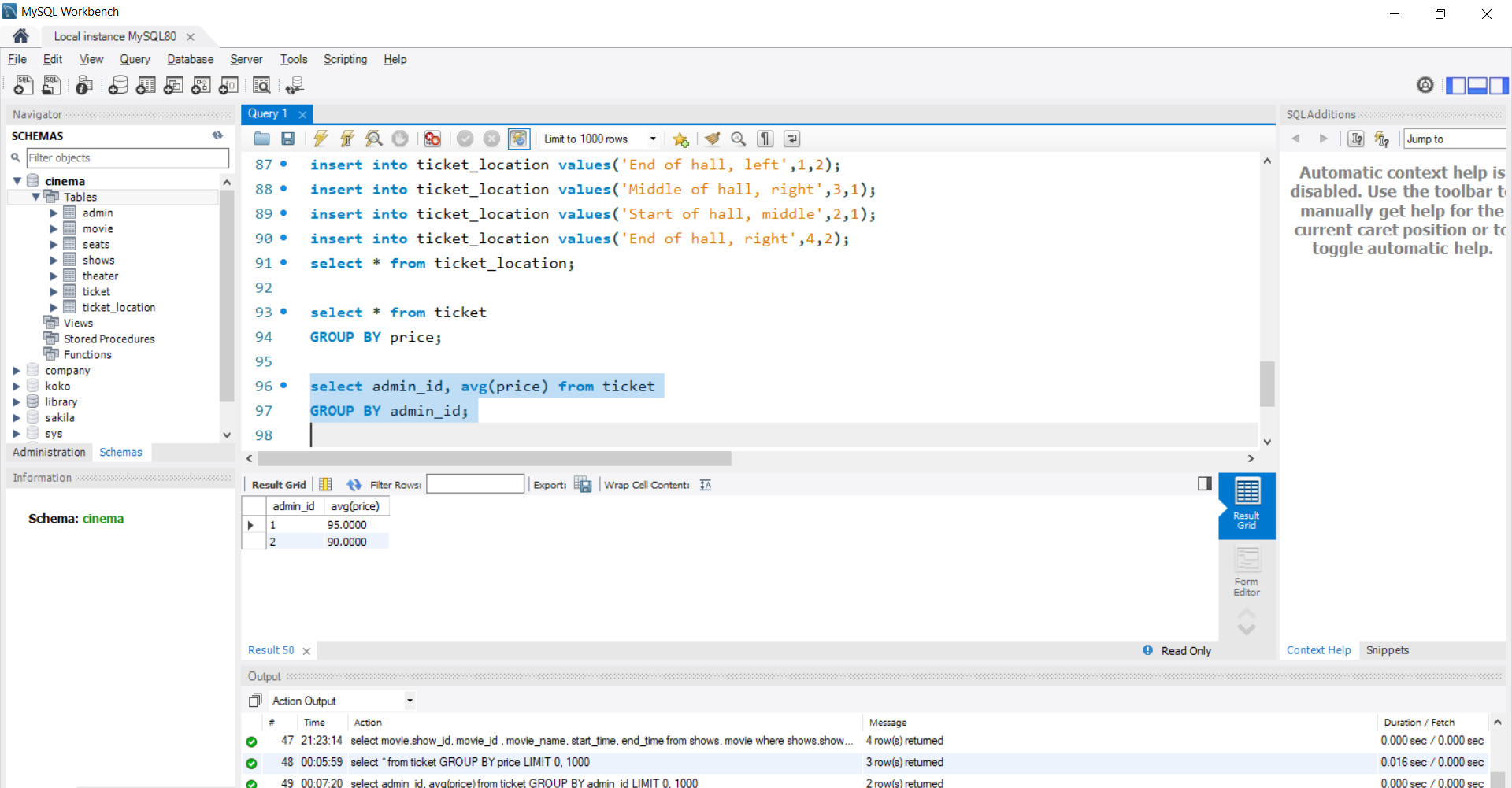
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# **Project TABLE GROUP BY & JOIN**

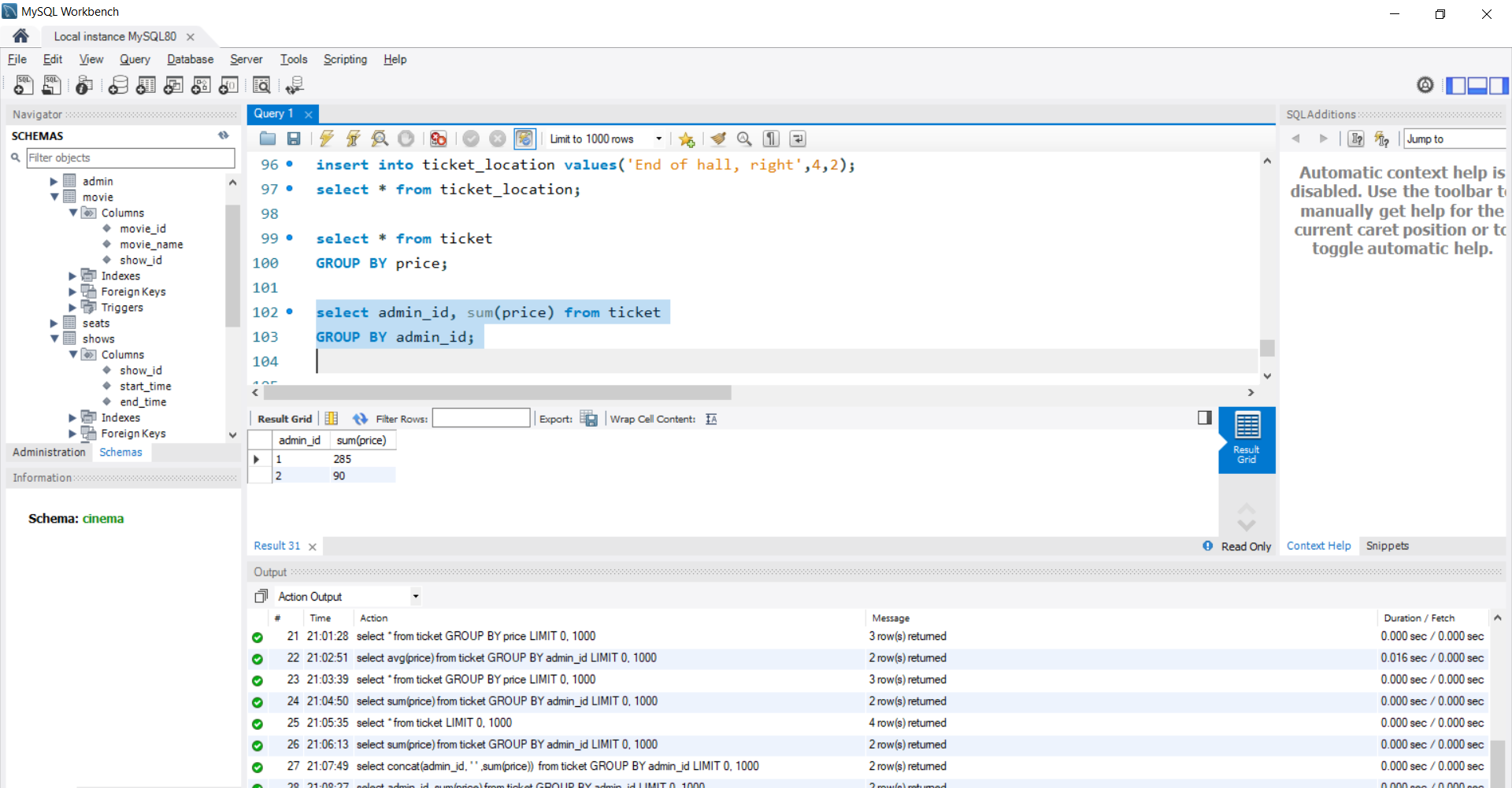
## **GROUP BY Admin\_ID**

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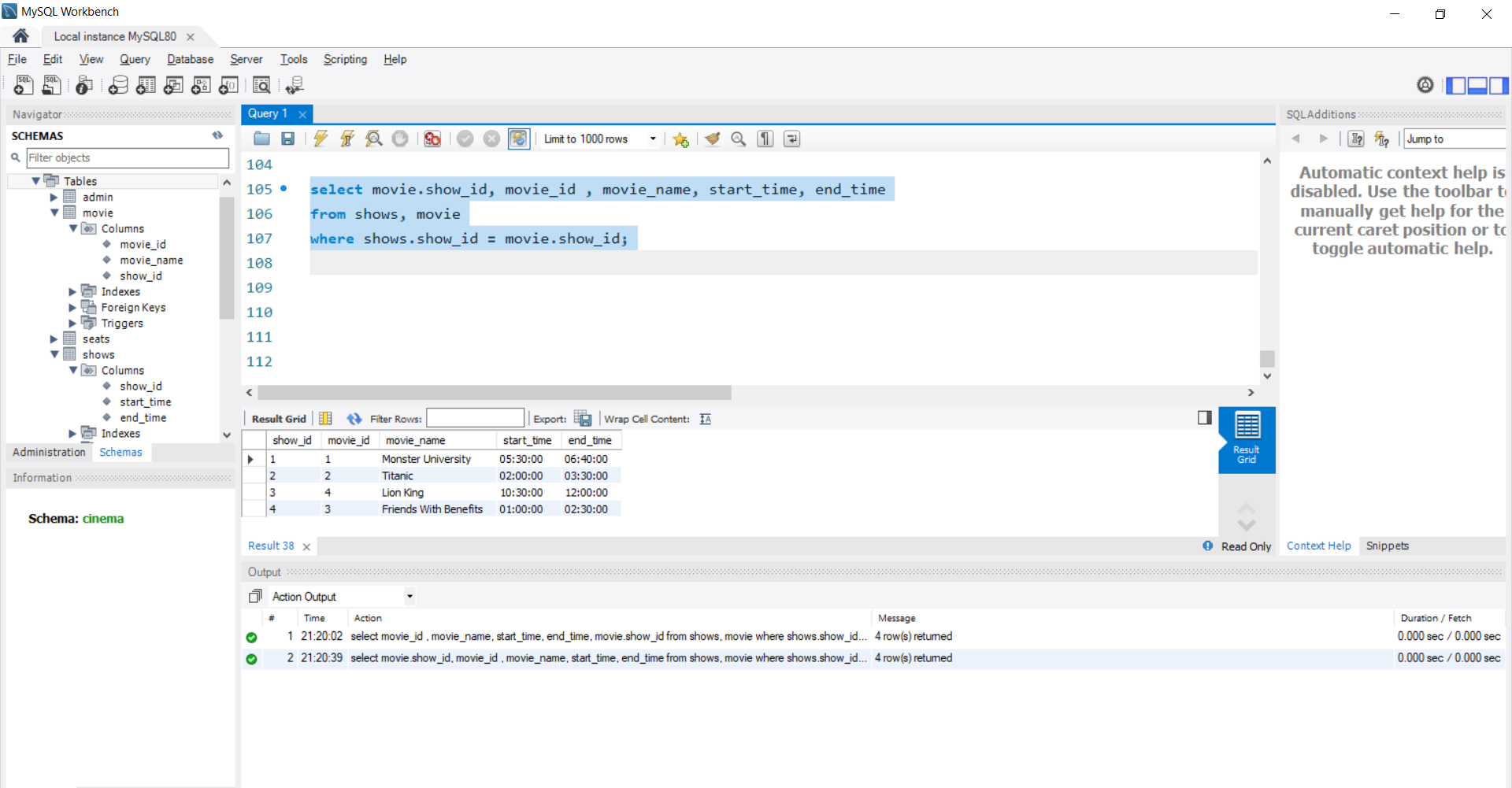
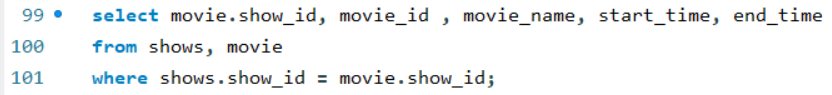
## **GROUP AVG Price BY Admin\_ID**

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## **GROUP Sum Price BY Admin\_ID**

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## **JOIN Movie Table and Show Table BY Show\_ID**



## **INNER JOIN Seats ON Theater**

