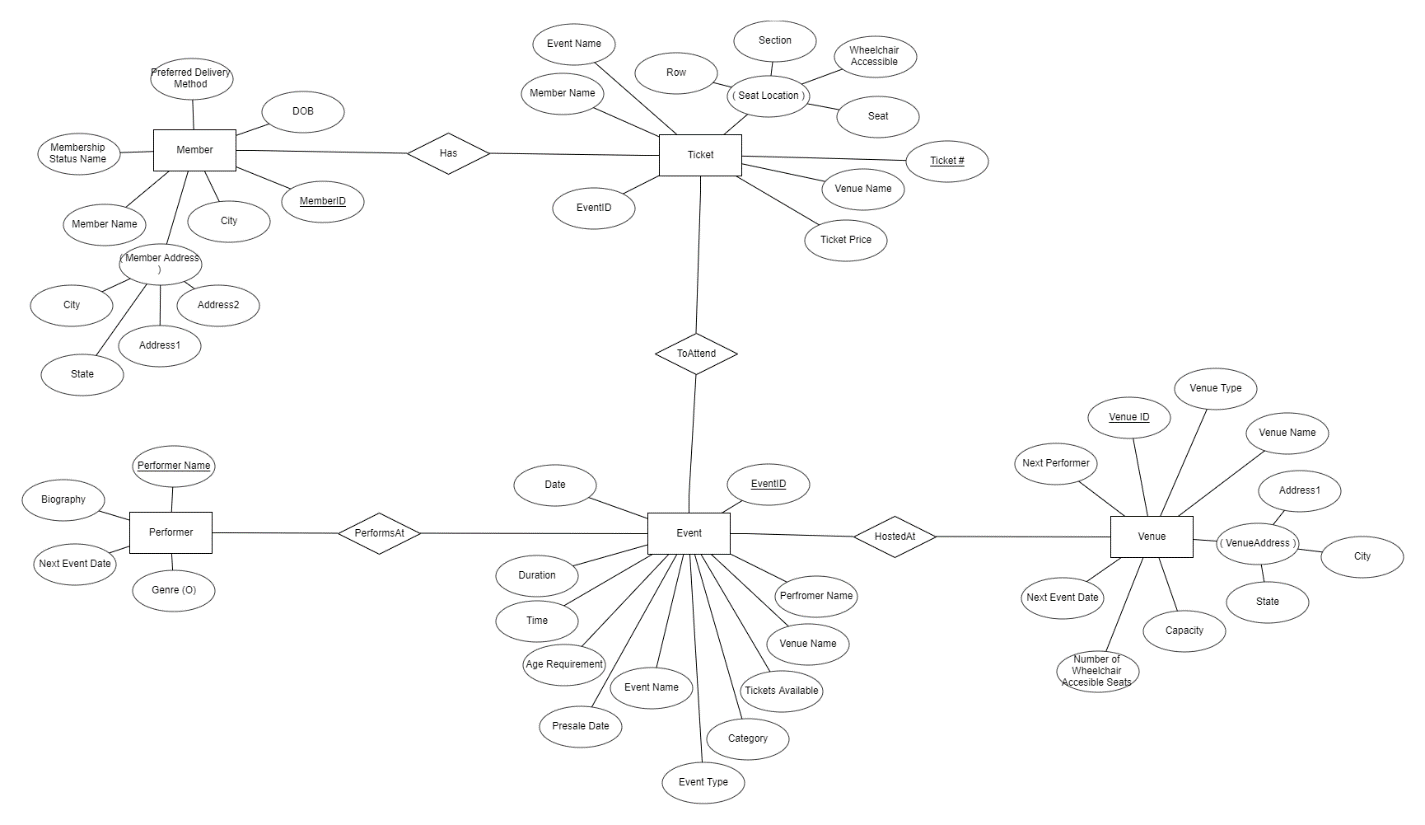
Encore Tickets Database

Humberto Arana, Zain Husain, Michael Lyke, Keaton May

ERD

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ERD Data Dictionary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity Type | Entity Type Description | Attributes | Key(s) | Relationships |
| Event | An event to which tickets are being sold on the website. | Date, **Duration**, Time, Age Requirement, Presale Date, Event Name, Event Type, Category, **Tickets Available**, Venue Name, Performer | Event ID | An Event is Hosted At a Venue. |
| Venue | The venue at which the event takes place. | **Next Performer**, **Venue Type**, Venue Name, City, State, Address, Capacity, **Number of Wheelchair Accessible Seats**, **Next Event Date** | Venue ID | A Venue Hosts an Event. |
| Performer | An artist or musician who is selling tickets to an event on the website. | **Biography**, Next Event Date, Genre, Performer Name | Performer Name | A Performer Performs At an Event. |
| Member | A member of our service who can purchase event tickets. | Membership Status Name, Member Name, Member Address **(City, State, Address, Address2)**, DOB, **City**, Preferred Delivery Method | Member ID | A Member Has a Ticket. |
| Ticket | A ticket to that is associated to a seat at an event. | Event Name, Member Name, Seat Location(Section, Row, **Wheelchair Accessible**, Seat), Ticket Price, Venue Name, Ticket # | Ticket # | A Ticket is used To Attend an Event. |
| Add On | Perks that a customer could add to their ticket | **Code**, Add On Name, **Venue** **ID**, **Venue** **Name**, **Description**, Price | Code # | An add on is added to a ticket |
| Membership Status | A status associated with a member | Name, **Ticket Discount**, Subscription Cost | Status Name | A member can have a Status |

Schema

Event

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Event ID | Event Type | Event Name | Event Date | Time | **Duration** |
| Venue Name | Performer Name | Age Requirement | Category | Presale Date | Tickets Available |

Venue

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Venue ID | Venue Name | Address | | **Next Performer** | | **Next Event Date** |
| **Number of Wheelchair Accessible Seats** | | | Capacity | **Venue Type** | Add on Code | |

Ticket

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Event ID | Event Name | Venue Name | Ticket Number | Member Name | Section | Row |
| Seat | Ticket Price | Ticket Class Name | Ticket Class Price | Wheelchair Accessible | Add-on Code |

Member

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Member ID | Member Name | Address | Phone Number | DOB | Preferred Delivery Method | Membership Status Name |

Performer

|  |  |  |  |
| --- | --- | --- | --- |
| Performer Name | Genre | Next Event Date | **Biography** |

Ticket Class

|  |  |  |  |
| --- | --- | --- | --- |
| Ticket Class Name | Venue Name | Price of Upgrade | Parking Included |

Add On

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Code | Name | **Venue ID** | **Venue Name** | **Description** | Price |

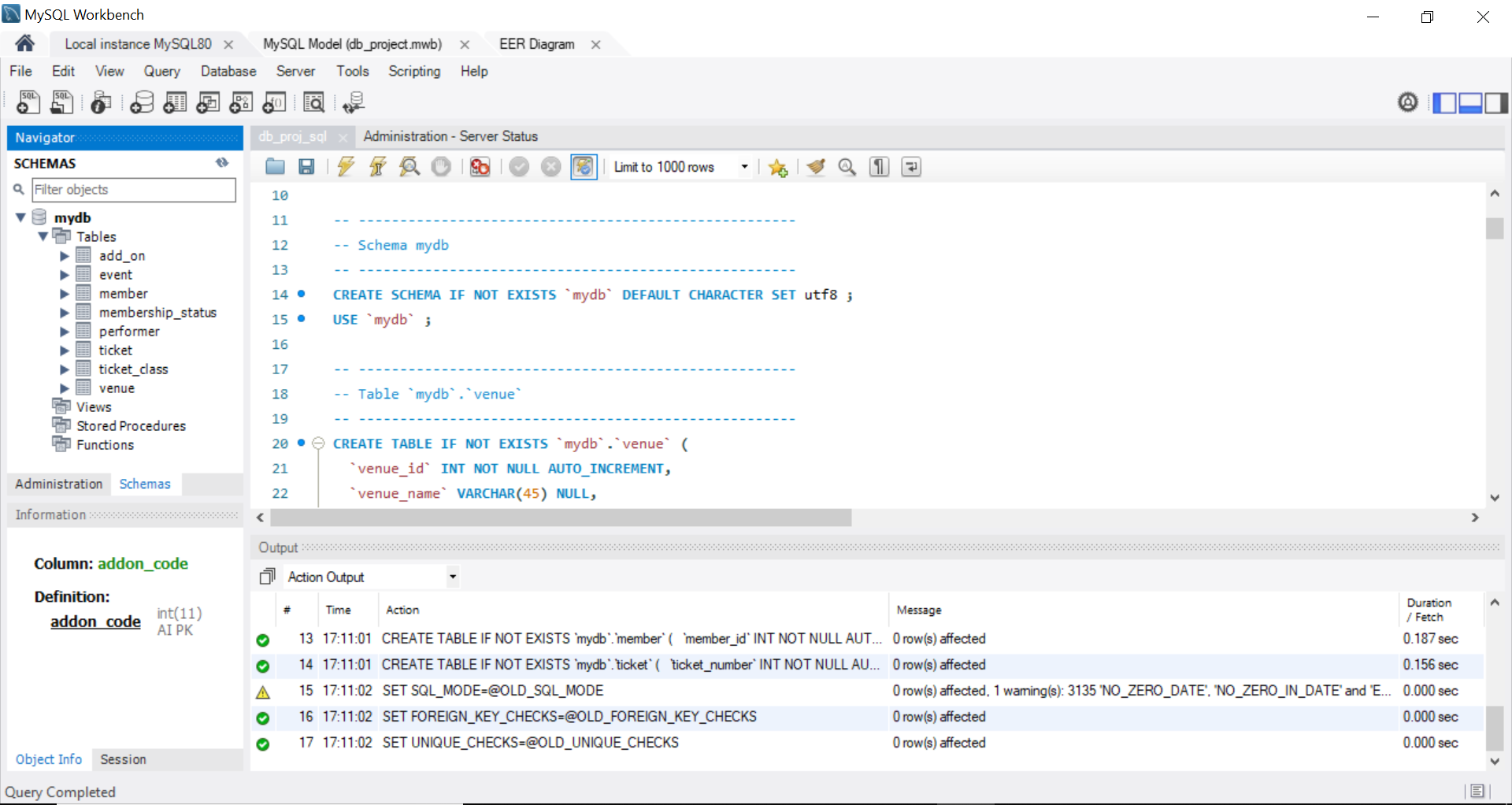
Membership Status

|  |  |  |
| --- | --- | --- |
| Status Name | **Ticket Discount** | Subscription Cost |

Schema Data Dictionary

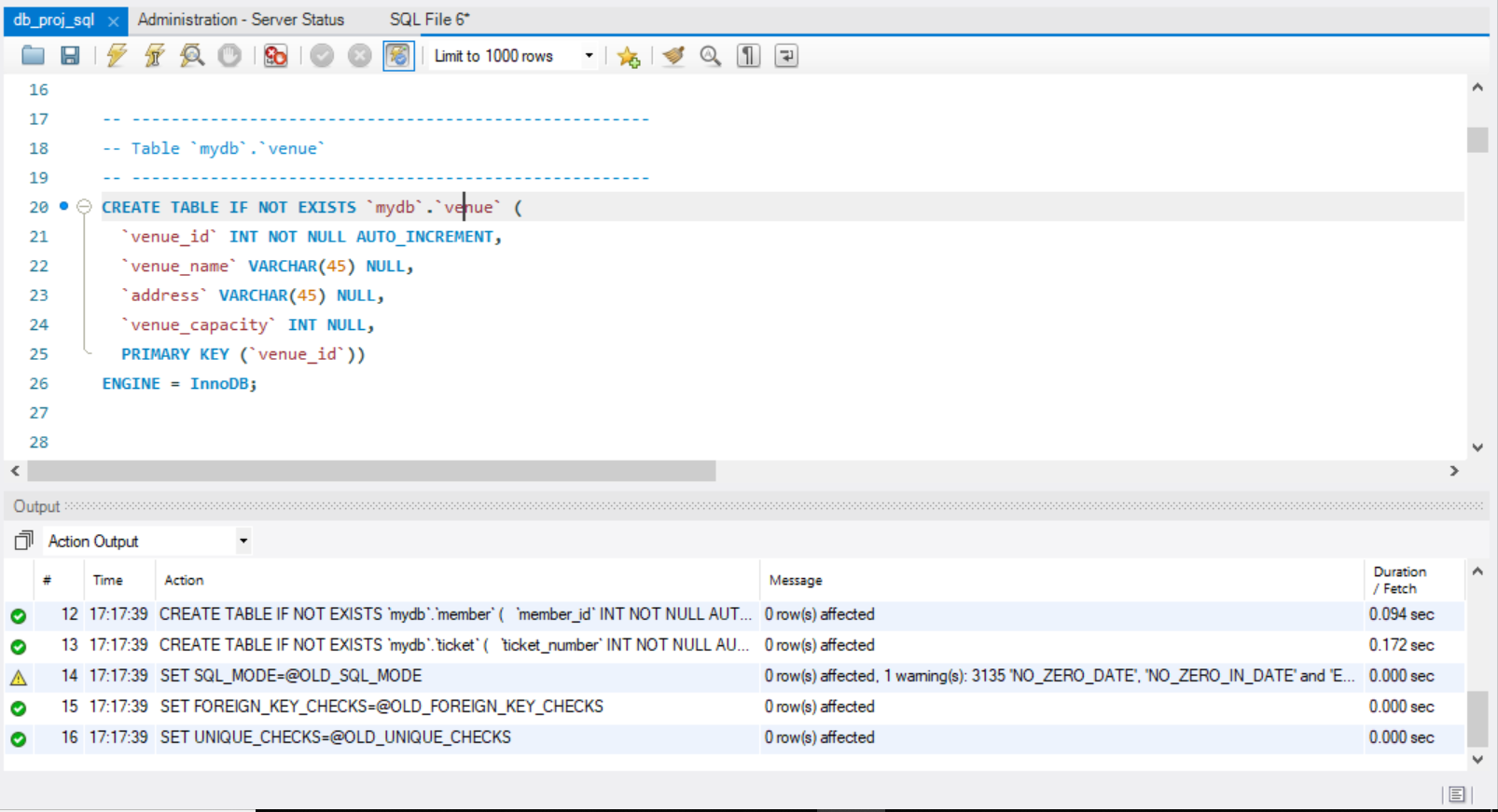
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table | Table Description | Primary Key | SuperKey | Attributes | Foreign Keys |
| Member | A member of our service who can purchase event tickets. | Member ID | Member ID | |  |  | | --- | --- | | MemberID | String | | MemberName | String | | Address | String | | PhoneNumber | String | | DOB | String | | PreferredDeliveryMethod | String | | MembershipStatusName | String | |  |
| Performer | An artist or musician who is selling tickets to an event on the website. | Performer Name | Performer Name | |  |  | | --- | --- | | PerformerName | String | | Genre | String | | NextEventDate | String | | **Biography** | **String** | |  |
| Ticket | A ticket to that is associated to a seat at an event. | Ticket ID | Ticket ID | |  |  | | --- | --- | | EventID | String | | EventName | String | | VenueName | String | | TicketNumber | Int | | MemberName | String | | Section | Char | | Row | Int | | Event ID |
| Event | An event to which tickets are being sold on the website. | Event ID | Event ID | |  |  | | --- | --- | | EventID | String | | EventType | String | | EventName | String | | EventDate | String | | Time | String | | **Duration** | **Int** | | VenueName | String | | PerformerName | String | | AgeRequirement | Int | | Category | String | | PresaleDate | String | | **TicketsAvailable** | **Int** | |  |
| Venue | The venue at which the event takes place. | Venue ID | Venue ID | |  |  | | --- | --- | | VenueID | String | | VenueName | String | | Address | String | | **NextPerformer** | **String** | | **NextEventDate** | **String** | | **WheelchairAccessibleSeats** | **Int** | | Capacity | Int | | **VenueType** | **String** | | AddOnCode | String | |  |
| Add On | An add-on that can be added to a ticket. | Add On Name | Add On Name | |  |  | | --- | --- | | AddOnCode | String | | AddOnName | String | | AddOnPrice | Double | |  |
| Membership Status | A status that a member can have. | Status Code | Status Code | |  |  | | --- | --- | | Status Name | String | | Subscription Cost | Double | |  |

Database Tool Work Area

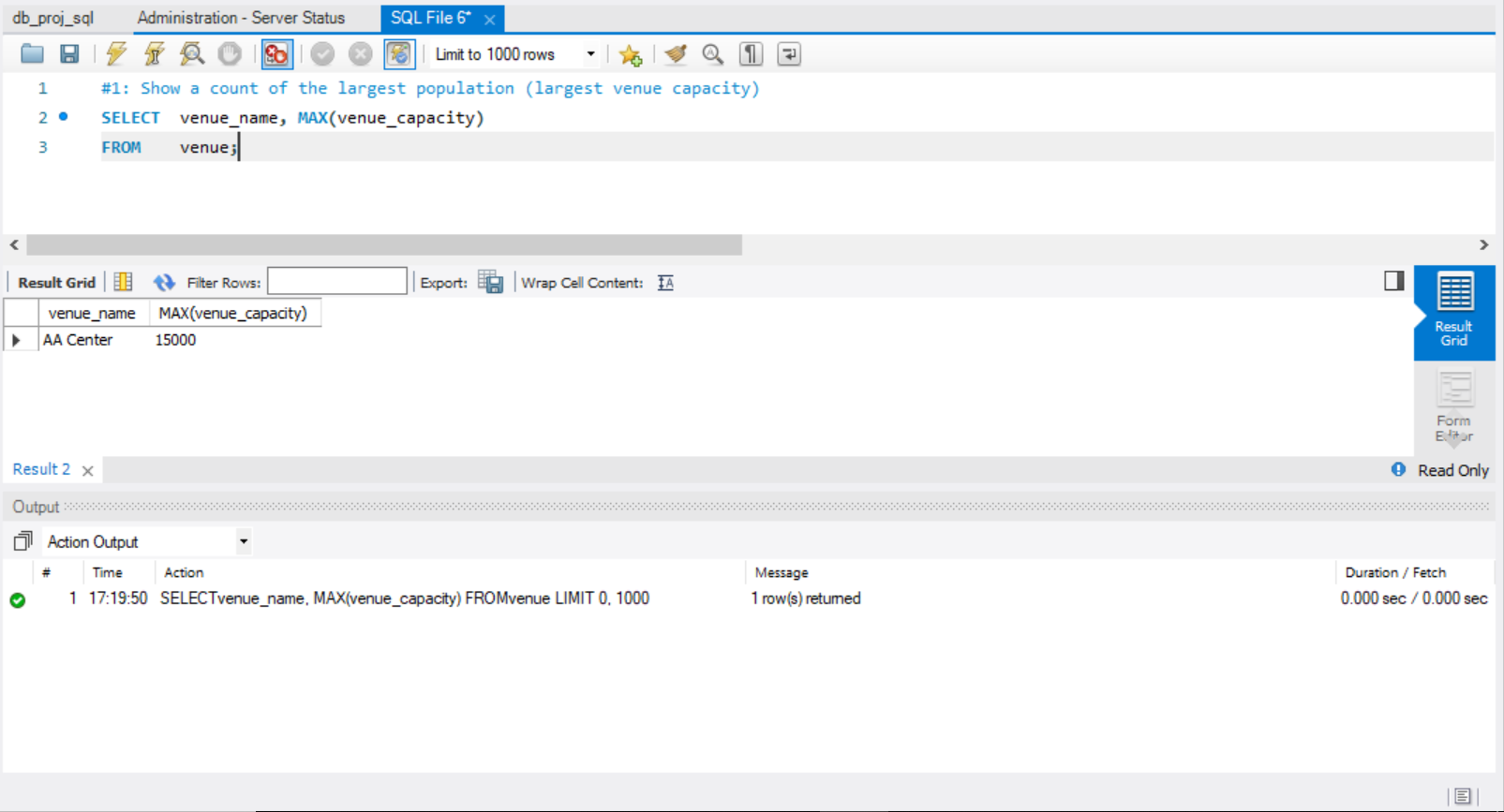


SQL Supported Statements

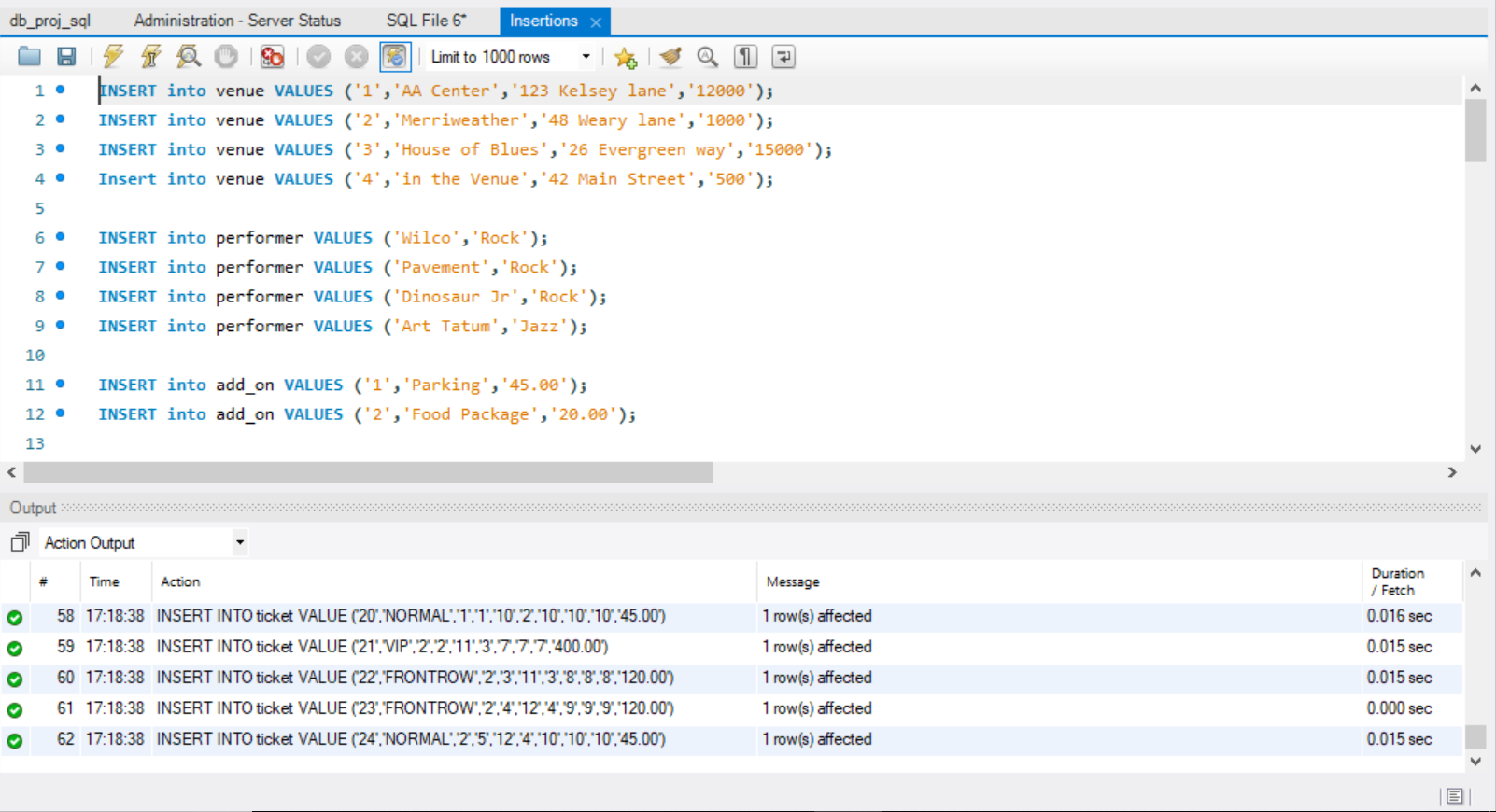
CREATE



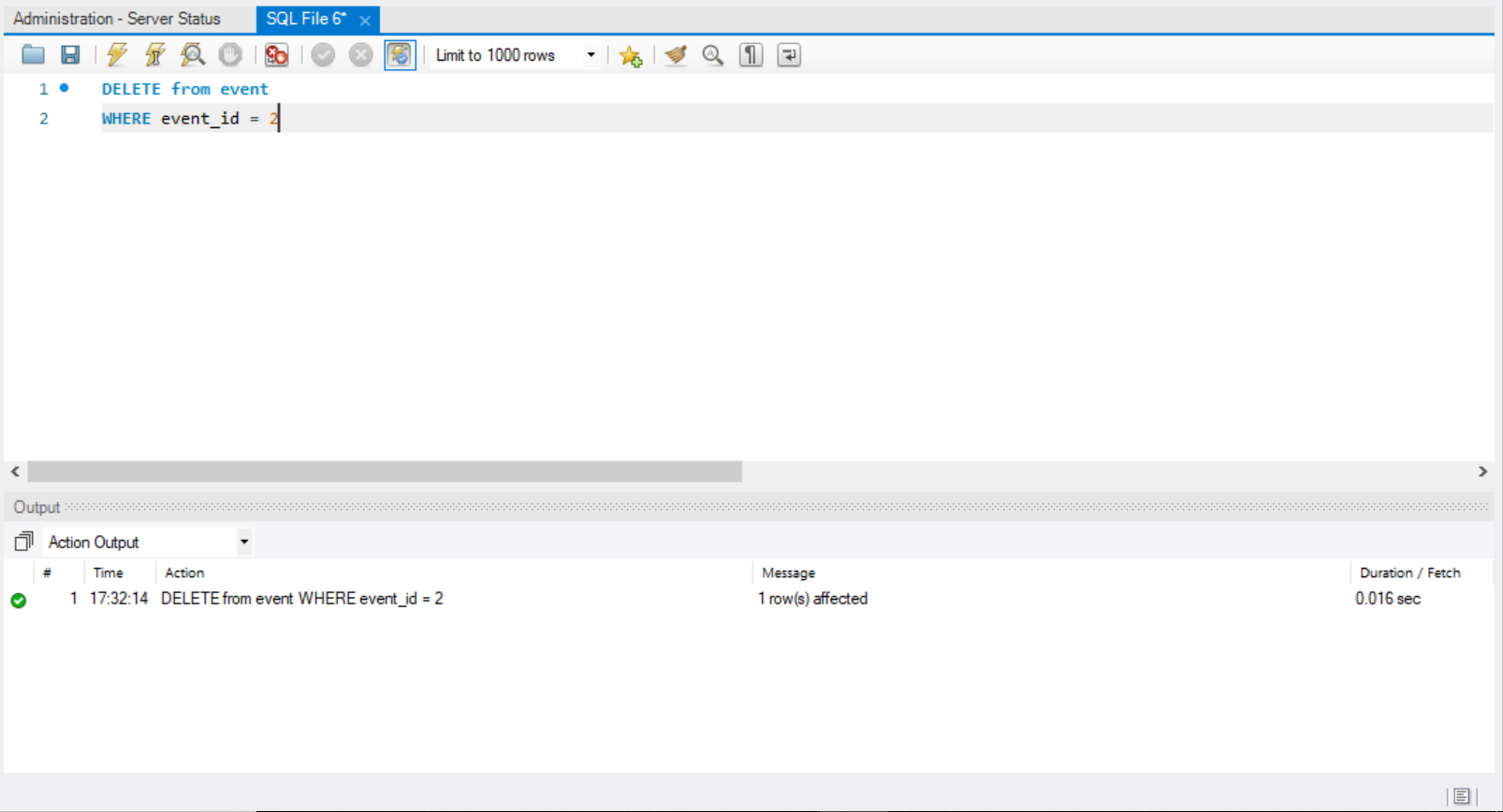
SELECT

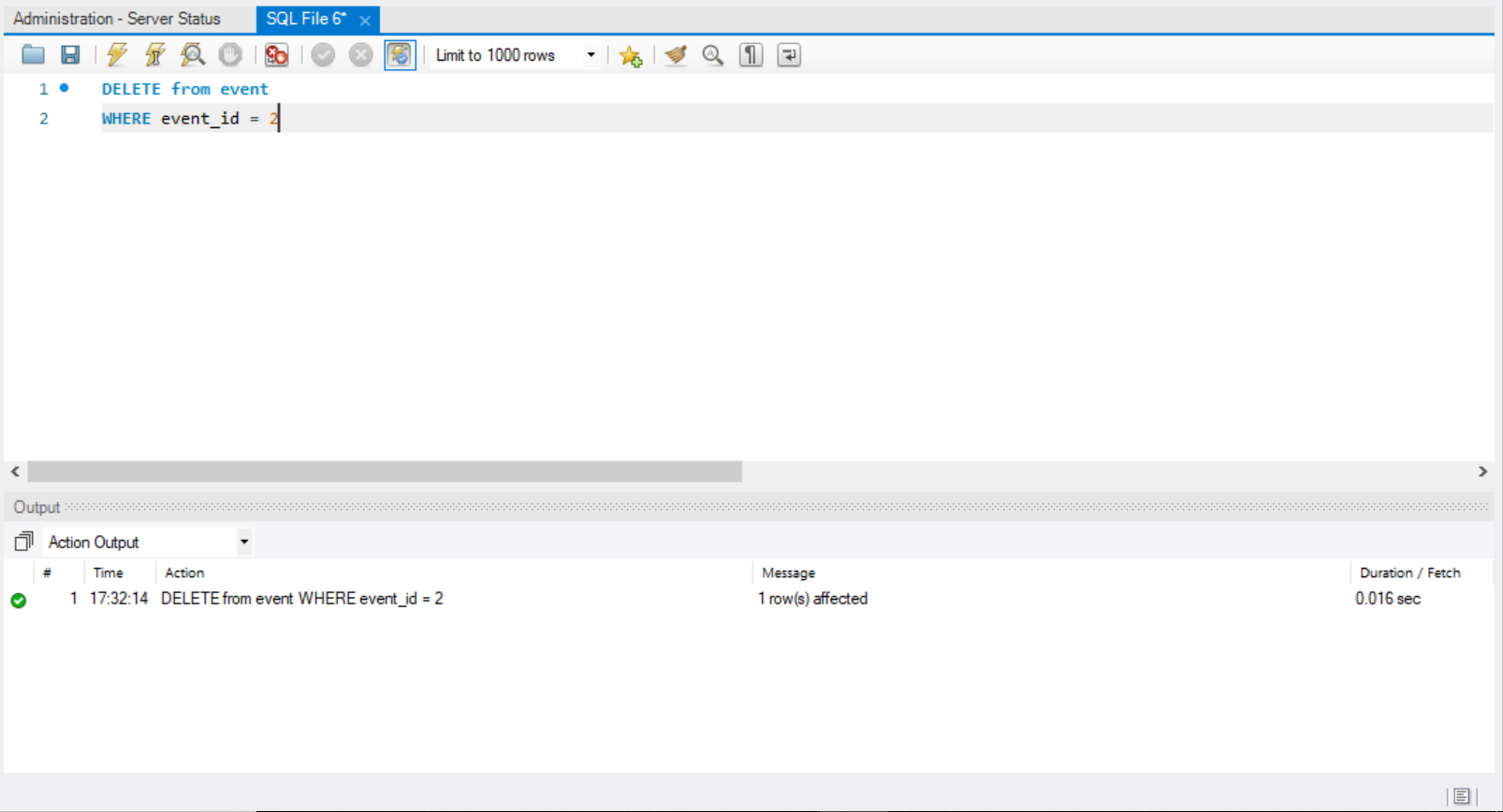


INSERT

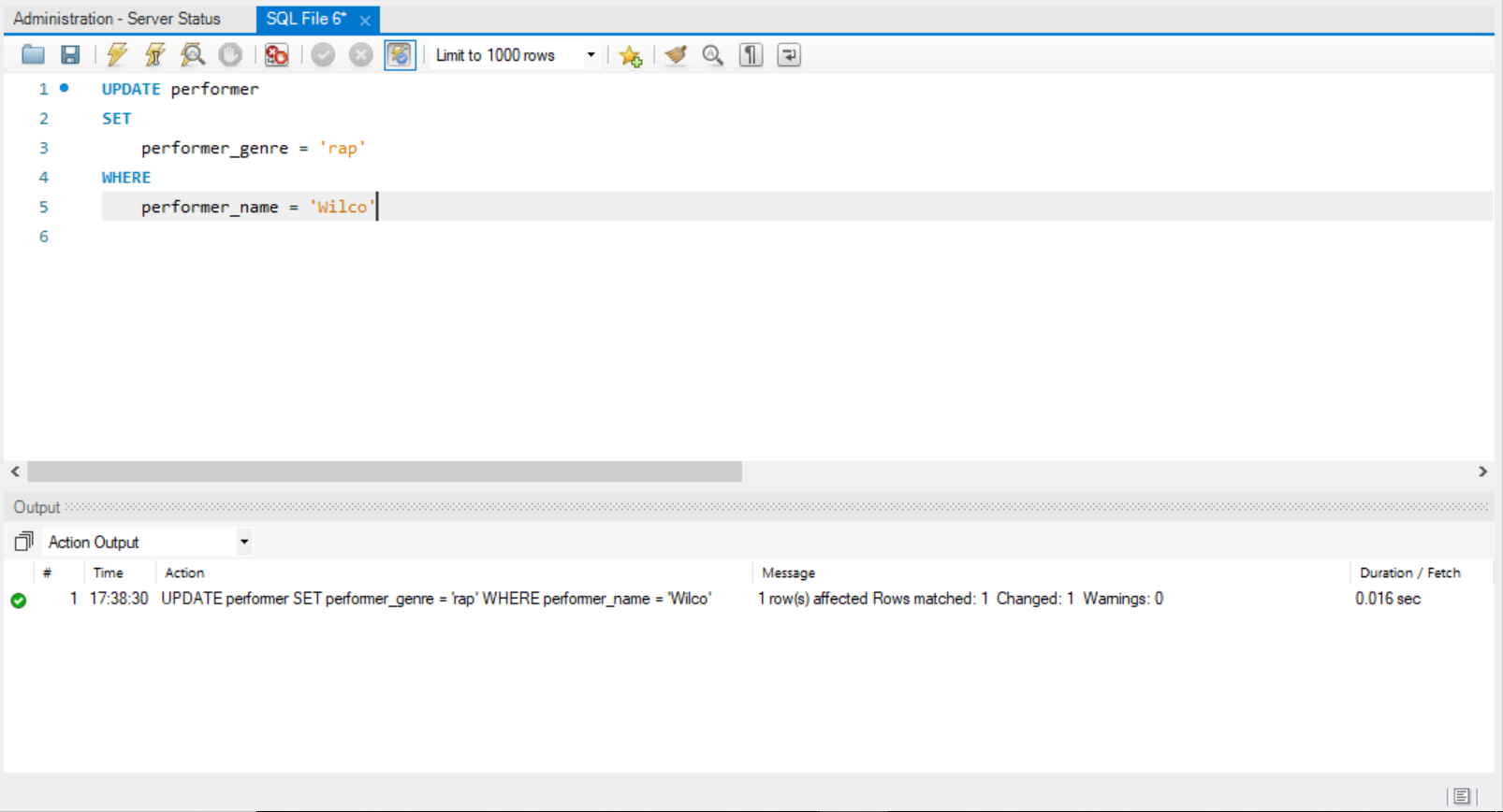


DELETE

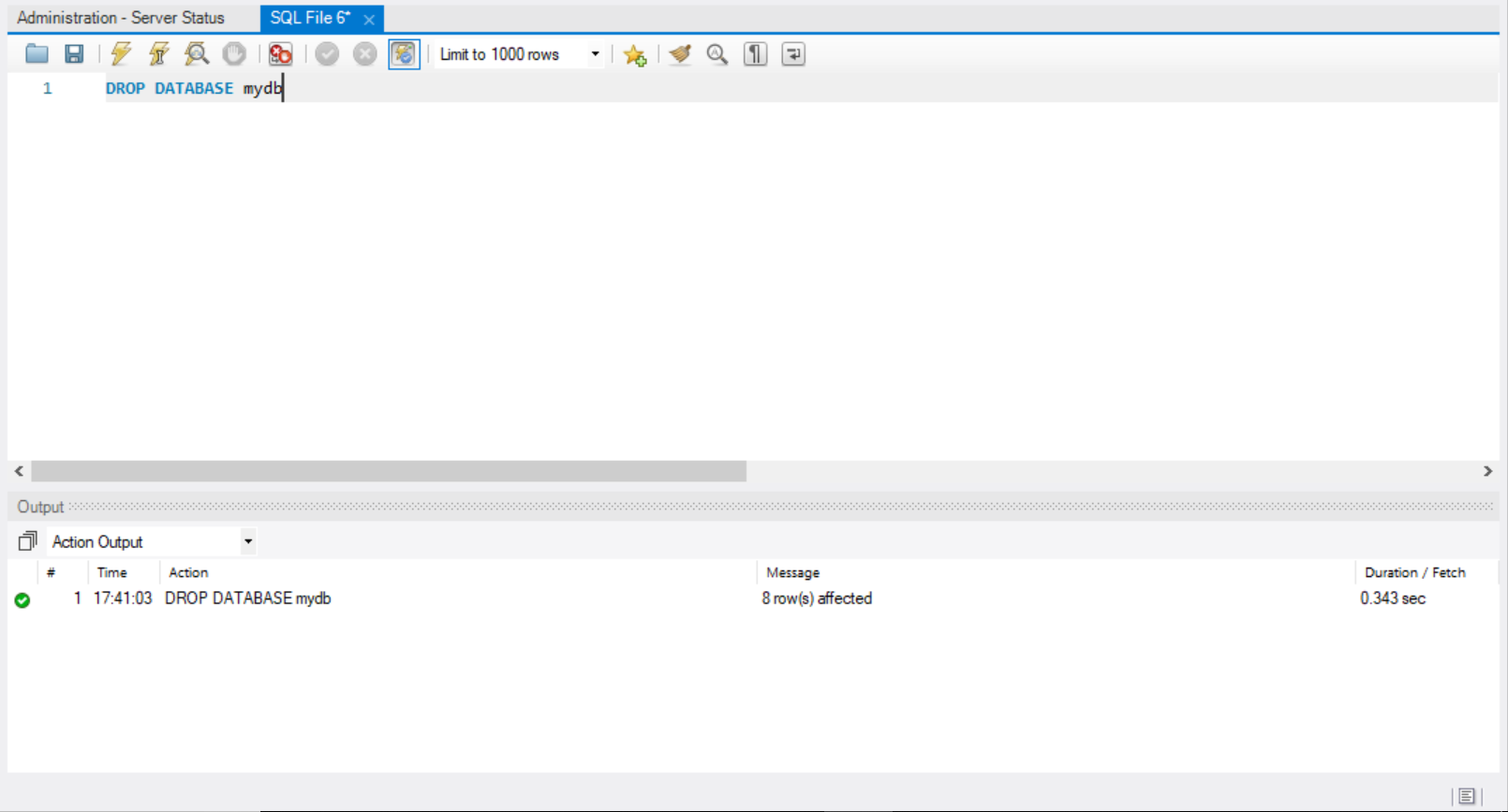
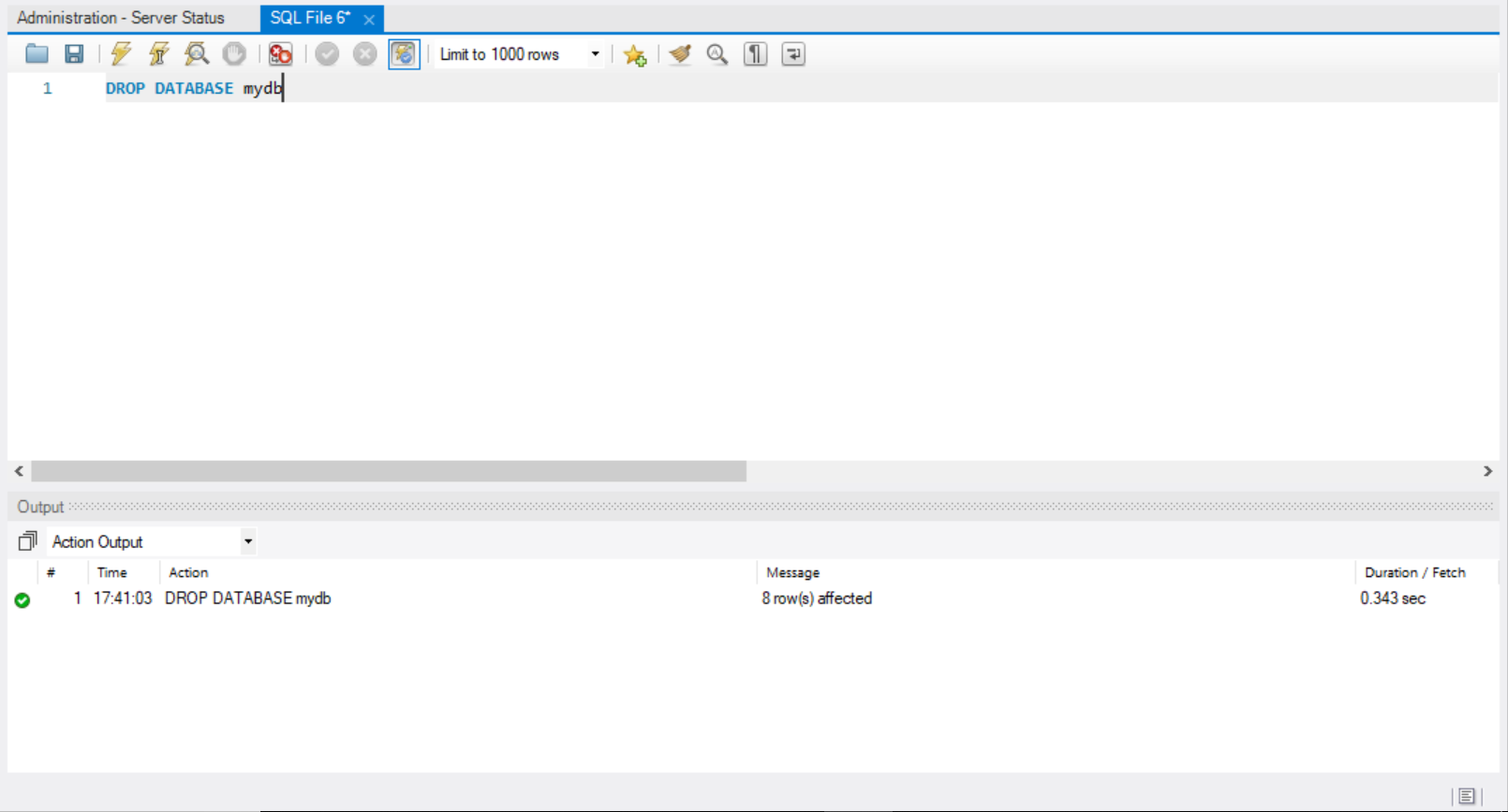




UPDATE



DROP



Implementation Log

Data Generation

Queries

**#1**: Show a count of the largest population (largest venue capacity)

**SELECT** venue\_name, **MAX**(venue\_capacity)

**FROM** venue;

**#2**: Show a listing of a key entity in the database (events over a period of time)

**SELECT** event\_id, event\_name, venue\_id, event\_date

**FROM** event

**WHERE** event\_date **BETWEEN** '2019-6-1' **AND** '2019-7-1';

**#3**: Show a list of entities that must function together () - returns tickets to a single event

**SELECT** ticket.ticket\_number, event.event\_name, venue.venue\_name

**FROM** ticket, event, venue

**WHERE** event.event\_id = 4 **AND** ticket.event\_id = event.event\_id **AND** venue.venue\_id = event.venue\_id;

**#4**: Show the cost of an occurrence, derived using aggregate functions (Total revenue)

**SELECT** jtable.event\_id, SUM(jtable.ticket\_price + jtable.upgrade\_price)

**FROM** (

**SELECT** e.event\_id, t1.ticket\_number, t1.ticket\_price, tc.upgrade\_price

**FROM** ticket\_class tc

**LEFT** **JOIN** ticket t1 **ON** t1.ticket\_class\_name = tc.ticket\_class\_name

**LEFT** **JOIN** event e **ON** e.event\_id = t1.event\_id

**WHERE** e.event\_id = 1

) as jtable;

**#5**: Show a schedule for multiple occurrences, sorted by date and time (Schedule for a venue)

**SELECT** v1.venue\_name, e.event\_name, e.event\_date

**FROM**  event e

**LEFT** **JOIN** venue v1 **ON** v1.venue\_id = e.venue\_id

**WHERE** e.event\_date **BETWEEN** '2019-7-1' **AND** '2019-8-1'