Encore Tickets

Encore Tickets is an online retailer of event tickets. The scope of the business is to provide a browsable list of events for which you can purchase tickets and additional services provided by the venue. The company will also offer memberships to members who pay varying subscription fees which will provide a flat discount to future ticket purchases, and provide some information about the performers and venue which are related to the event.

Our business rules revolve around eight entities: at the base level there is an event which has a unique ID, a type (i.e. concert, basketball game), a name, the date of the event, the time the event will take place, and duration. The event also has assigned to it a venue ID, the performer’s name, an age requirement, the presale date, and the category type of music. ~~the number of tickets remaining for the event, which is calculated from the list of tickets assigned to the event’s ID.~~

A venue consists of a unique venue ID, the venue name, and the address where the venue is located. ~~the city, state and address field one and two, a reference to the next performer on the schedule and the date of that performance, the number of wheelchair accessible seats at the venue,~~ and the patron capacity of the venue.~~, the type of venue, and the add-on purchases available at that venue.~~

Every ticket has an event ID ~~and name for the event to which it corresponds~~, ~~the name of the event,~~ ~~the name of~~ the venue ID, a unique ticket number, ~~the name of~~ the member ID ~~of the site who has purchased the ticket~~, the section, row, and seat number that the ticket entitles the purchaser to, the base price of the ticket, and the class name and price addition which is based on the location of the seat or additional packages that were added (i.e. VIP package, premium seating). The ticket also indicates ~~whether the seat is wheelchair accessible and lists~~ any add-on services the purchaser has paid for via the add-on code.

A member is a registered user of the website and has a unique member ID, the name of the member, an address ~~a name, city, state, address lines one and two~~, a phone number, membership status and a preferred delivery method for tickets. Additionally, a member also has a date of birth which is used to calculate whether they meet the age requirement of the event.

Performers are the participants in an event. Performers have a name and a genre (if applicable). ~~and the date of their next event, along with a short bio.~~

A ticket class is unique to each venue and includes the name of the class~~, the venue name and ID to which it belongs,~~ and the price of the ticket upgrade. ~~and an indication to whether or not parking is included in that ticket class.~~

An add-on service describes the additional services which venues sell through the website to end users, which can include meal services, all-access passes, valet parking, etc. They are unique to each venue and have a code, name, ~~the venue ID and name of the venue where they are available, a description~~ and a price.

Finally, a membership is a description of the optional subscription of registered users which entitles them to a discount on tickets. A membership has a name~~, ticket discount~~ and subscription cost.

Large venues can have capacities up to 100,000 people. With this in mind we estimate that 500,000 or more tickets, for around 30 events, will be sold in a year. Due to the nature of concert ticket sales, we estimate that some events will draw in 10,000 or more ticket sales within one day. We expect to sell tickets for 50 different artists and have 10,000 memberships.

We hope to provide a fast and reliable database that can handle the demands of a large volume of ticket sales. It should perform in such a way that ticket transactions can be made quickly and effectively. Users should be able to quickly find their favorite artist’s next performance as well as their local venue’s next event.

**Table Sizes**

Event – 30 Events

Venue – 30 Venues to select from

Ticket – 500,000 or more tickets throughout the year

Member – 10,000 members

Performer – 50 Artists

Ticket Class – At least 3 types (Handicap, Standard, VIP) but depends on venues

Add-on – Multiple, dependent on venue

**Table Data**

Event

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Event ID | Event Name | Event Type | Event Date | Event Time | Event Duration | Venue ID | Performer Name | Age Requirement | Category | Presale Date |
| 1 | Concert 1 | Concert | 2019-6-02 | 8:45 PM | 60 | 1 | Pavement | 21 | Music | 2019-5-20 |

Venue

|  |  |  |  |
| --- | --- | --- | --- |
| Venue ID | Venue Name | Address | Venue Capacity |
| 1 | AA Center | 123 Kelsey Lane | 12000 |

Ticket

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ticket Number | Ticket Class Name | Add-on Code | Member ID | Event ID | Venue ID | Section | Row | Seat | Ticket Price |
| 1 | VIP | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 400.00 |

Member

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Member ID | Member Name | Membership Status Name | Address | Phone Number | Member DOB | Member Preferred Delivery |
| 1 | John | Bronze | 123 Street | 214-793-0001 | 1997-2-16 | Email |

Performer

|  |  |
| --- | --- |
| Performer Name | Performer Genre |
| Wilco | Rock |

Ticket Class

|  |  |
| --- | --- |
| Ticket Class Name | Upgrade Price |
| VIP | 45.00 |

Add-on

|  |  |  |
| --- | --- | --- |
| Add-on Code | Add-on Name | Add-on Price |
| 1 | Parking | 45.00 |