# Databases

## Entities

### **Event:**

This entity will store all the information about the events. The unique ID for the entity is the Event\_ID and it will be used to determine an event. The entity can hold all the necessary information such as date duration and location. The event is created by a user so the Host\_ID is used to identify the user that create the event. The option to keep the event private is also available.

### **Event Request:**

The Event Request entity is used store the information about an event request. The unique ID is the foreign key from the Event entity. It stores the response of user to the request as well as date invited and if the user seen the request or not.

**User:**

All the data of a user are store in the User entity. The unique User\_ID is used as a primary and is used to log in in to the system with the required password. The basic personal data of the user are also store such as first name, last name, position, email and phone number. An Admin attribute is used to identify if a user is an admin or a normal user.

**Attendee:**

The attendee entity holds the information about the attendance of the event. The combination of the two attributes User\_ID and Event\_ID will give a combine key for the table.

## Tables

|  |  |  |  |
| --- | --- | --- | --- |
| Table: Event | | | |
| Attributes | PK/FK | Data Type | Constraints |
| Event\_ID | PK | Varchar(10) | Unique / Not Null |
| User\_ID | FK | Varchar(10) | Not Null |
| Host\_ID |  | Varchar(10) | Not Null |
| Event\_Description |  | Varchar(30) |  |
| Event\_Start\_Date |  | Date | Not Null |
| Event\_Duration |  | int |  |
| Room\_No |  | Varchar(10) |  |
| Location |  | Varchar(15) |  |
| Private |  | bit |  |
| Comment |  | Varchar(100) |  |

## 

|  |  |  |  |
| --- | --- | --- | --- |
| Table: Attendee | | | |
| Attributes | PK/FK | Data Type | Constraints |
| Event\_ID | FK | Varchar(10) | Unique / Not Null |
| User\_ID | FK | Varchar(10) | Not Null |

|  |  |  |  |
| --- | --- | --- | --- |
| Table: User | | | |
| Attributes | PK/FK | Data Type | Constraints |
| User\_ID | PK | Varchar(10) | Unique / Not Null |
| Admin |  | bit | Not Null |
| Password |  | Varchar(20) | Not Null |
| First\_Name |  | Varchar(15) | Not Null |
| Last\_Name |  | Varchar(15) | Not Null |
| Position |  | Varchar(30) |  |
| Email |  | Varchar(30) | Not Null |
| Phone\_Number |  | Varchar(20) | Not Null |

|  |  |  |  |
| --- | --- | --- | --- |
| Table: Event Request | | | |
| Attributes | PK/FK | Data Type | Constraints |
| Event\_ID | FK | Varchar(10) | Unique / Not Null |
| Response |  | Bit | Not Null |
| Seen |  | Bit | Not Null |
| Date\_Invited |  | date | Not Null |

## Entity Relation Diagram

