EVENT MANAGEMENT SYSTEM

Team members:

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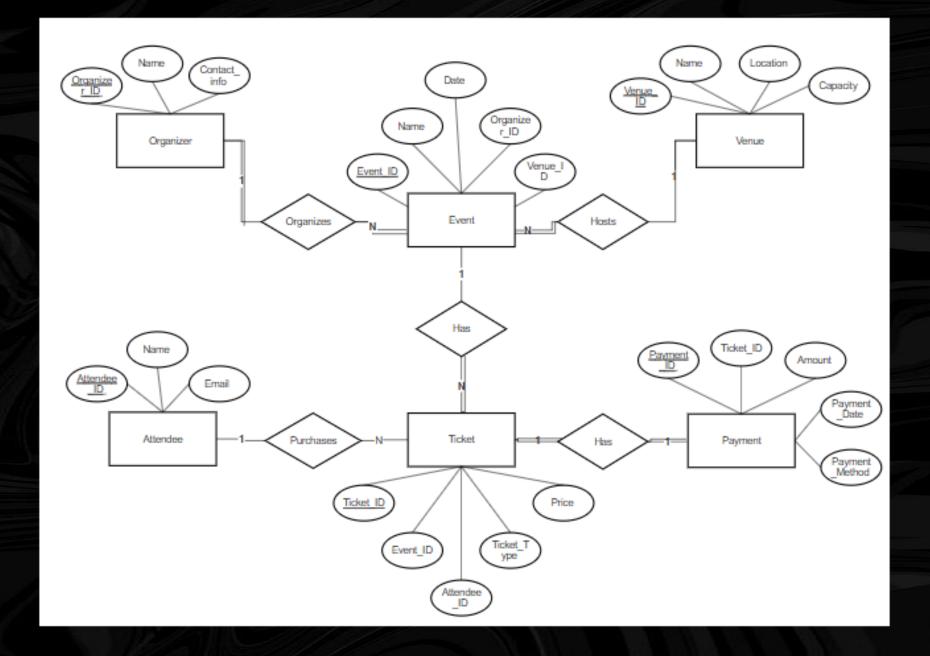
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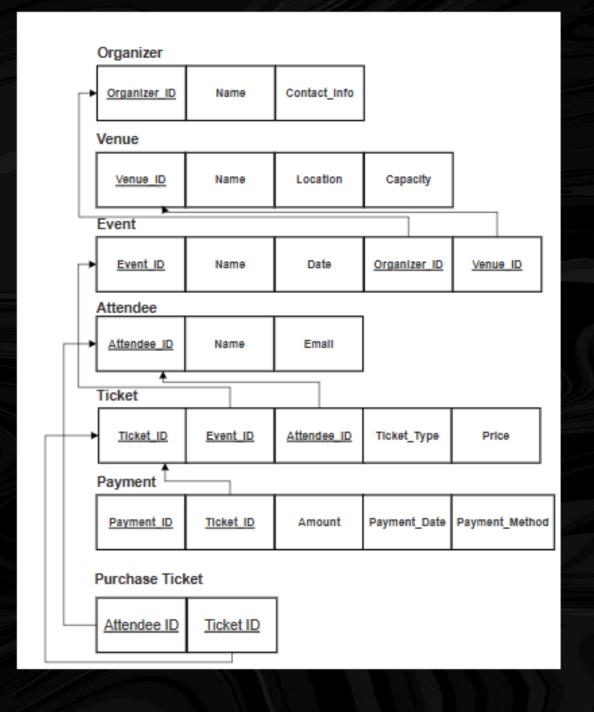
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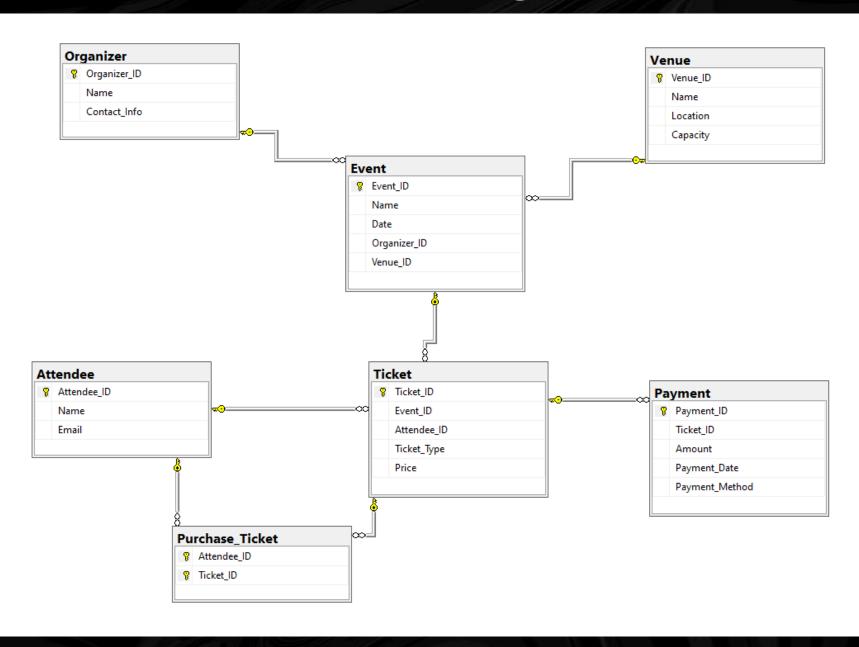
The ER conceptu al schema diagram:



The Relational Schema for the case study:



Database Diagram



SQL SERVER CODE

```
□CREATE DATABASE EventManagementSystem;
 USE EventManagementSystem;
⊟CREATE TABLE Organizer (
     Organizer ID INT IDENTITY(1,1),
     Name NVARCHAR(255) NOT NULL,
     Contact_Info NVARCHAR(255) UNIQUE NOT NULL,
     CONSTRAINT pk Organizer PRIMARY KEY (Organizer ID),
     CONSTRAINT uq Contact Info UNIQUE (Contact Info)
⊟CREATE TABLE Venue (
     Venue_ID INT IDENTITY(1,1),
     Name NVARCHAR(255) NOT NULL,
     Location NVARCHAR(255) NOT NULL,
     Capacity INT NOT NULL CHECK (Capacity > 0),
     CONSTRAINT pk Venue PRIMARY KEY (Venue ID),
     CONSTRAINT uq Venue Name Location UNIQUE (Name, Location)
```

SQL SERVER CODE

```
ĠCREATE TABLE Event (
     Event ID INT IDENTITY(1,1),
     Name NVARCHAR(255) NOT NULL,
     Date DATE NOT NULL CHECK (Date >= GETDATE()),
     Organizer ID INT NOT NULL,
     Venue ID INT NOT NULL,
     CONSTRAINT pk Event PRIMARY KEY (Event ID),
     CONSTRAINT fk Event Organizer FOREIGN KEY (Organizer ID) REFERENCES Organizer(Organizer ID),
     CONSTRAINT fk_Event_Venue FOREIGN KEY (Venue_ID) REFERENCES Venue(Venue_ID),
     CONSTRAINT uq_Event_Name_Date_Venue UNIQUE (Name, Date, Venue_ID)
 );
∃CREATE TABLE Attendee (
     Attendee ID INT IDENTITY(1,1),
     Name NVARCHAR(255) NOT NULL,
     Email NVARCHAR(255) UNIQUE NOT NULL,
     CONSTRAINT pk Attendee PRIMARY KEY (Attendee ID),
     CONSTRAINT uq Attendee Email UNIQUE (Email)
```

SQL SERVER CODE

```
∃CREATE TABLE Ticket (
    Ticket ID INT IDENTITY(1,1),
    Event ID INT NOT NULL,
    Attendee ID INT NOT NULL,
    Ticket Type NVARCHAR(50) NOT NULL CHECK (Ticket Type IN ('VIP', 'Standard', 'Economy')),
    Price DECIMAL(10, 2) NOT NULL CHECK (Price >= 0),
    CONSTRAINT pk Ticket PRIMARY KEY (Ticket ID),
    CONSTRAINT fk Ticket Event FOREIGN KEY (Event ID) REFERENCES Event(Event ID),
    CONSTRAINT fk Ticket Attendee FOREIGN KEY (Attendee ID) REFERENCES Attendee (Attendee ID),
    CONSTRAINT uq Ticket Event Attendee UNIQUE (Event ID, Attendee ID)
ḋCREATE TABLE Payment (
    Payment ID INT IDENTITY(1,1),
    Ticket ID INT NOT NULL,
    Amount DECIMAL(10, 2) NOT NULL CHECK (Amount >= 0),
    Payment Date DATE DEFAULT GETDATE() NOT NULL,
     Payment Method NVARCHAR(50) NOT NULL CHECK (Payment Method IN ('Credit Card', 'Cash', 'Bank Transfer')),
    CONSTRAINT pk Payment PRIMARY KEY (Payment ID),
    CONSTRAINT fk Payment Ticket FOREIGN KEY (Ticket ID) REFERENCES Ticket(Ticket ID)
□CREATE TABLE Purchase Ticket (
     Attendee ID INT NOT NULL,
     Ticket ID INT NOT NULL,
     CONSTRAINT pk_Purchase_Ticket PRIMARY KEY (Attendee_ID, Ticket_ID),
     CONSTRAINT fk Purchase Ticket Attendee FOREIGN KEY (Attendee ID) REFERENCES Attendee (Attendee ID),
     CONSTRAINT fk Purchase Ticket Ticket FOREIGN KEY (Ticket ID) REFERENCES Ticket(Ticket ID)
```

THANK YOU