

Event Management System - Database Report

Overview

The Event Management System database is designed to manage all aspects of organizing and running events. It includes data for venues, vendors, events, attendees, registrations, employees, tickets, and sponsorships. The schema follows normalization principles and ensures relational integrity across all entities.

Entities and Relationships

venues

- Attributes:
 - VenueID (Primary Key)
 - VenueName
 - Location
 - Capacity

Purpose: Stores data about event locations.

vendors

- Attributes:
 - VendorID (Primary Key)
 - VendorName
 - ServiceType
 - ContactPerson
 - ContactEmail
 - ContactPhone

Purpose: Contains information about external service providers for events.

attendees

- Attributes:
 - AttendeeID (Primary Key)
 - FirstName
 - LastName
 - Email
 - Phone

Purpose: Records participant information.

events

- Attributes:
 - EventID (Primary Key)

- EventName
- EventType
- Startdate
- Enddate

Purpose: Represents core event information.

eventSchedule

- Attributes:
 - ScheduleID (Primary Key)
 - EventID (Foreign Key)
 - VenueID (Foreign Key)
 - Scheduledate
 - Starttime
 - Endtime

Purpose: Links events with venues and specifies schedule details.

employees

- Attributes:
 - EmployeeID (Primary Key)
 - FirstName
 - LastName
 - Email
 - Phone
 - Position

Purpose: Stores internal staff information.

employeeEventSchedule

- Attributes:
 - ScheduleID (Foreign Key)
 - EmployeeID (Foreign Key)

Purpose: Associates employees with scheduled events.

eventVendors

- Attributes:
 - EventID (Foreign Key)
 - VendorID (Foreign Key)

Purpose: Many-to-many relationship between events and vendors.

eventSponsors

- Attributes:
 - EventID (Foreign Key)

- SponsorID (Foreign Key)

Purpose: Many-to-many relationship between events and sponsors.

sponsors

- Attributes:
 - SponsorID (Primary Key)
 - SponsorName
 - ContactPerson
 - ContactEmail
 - ContactPhone

Purpose: Stores information about organizations funding the event.

registrations

- Attributes:
 - RegistrationID (Primary Key)
 - EventID
 - AttendeeID
 - RegistrationDate

Purpose: Tracks attendee registration for events.

tickets

- Attributes:
 - TicketID (Primary Key)
 - EventID
 - TicketType
 - Price

Purpose: Holds ticket types and pricing per event.



Relationships Summary

- 1:N: venues to eventSchedule
- 1:N: events to eventSchedule, tickets, registrations
- M:N: events to vendors via eventVendors
- M:N: events to sponsors via eventSponsors
- M:N: employees to eventSchedule via employeeEventSchedule
- 1:N: attendees to registrations

Strengths

- Proper normalization and separation of concerns.
- Modular design allows scalability (e.g., multi-vendor and multi-sponsor support).
- Data integrity through foreign key constraints.

Future Improvements

- Add constraints (e.g., NOT NULL) where appropriate.
- Use ENUM or separate lookup tables for fields like EventType, ServiceType, and TicketType for consistency.
- Consider timestamp fields for tracking creation and updates.