Database Design and Applications (S2-21)

- Event Management System project

## Team details

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## Project Description

The aim of this project is to create a robust database for an event management system. This system aims to store information related employees, clients, suppliers, events, and payments. The Database is designed such that it’s easy for clients to choose events based on their budget and helps the vent managers to co-ordinate with corresponding suppliers. We have designed the database using all the design concepts we have learnt so far.

### Who will be the users?

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| **User** | **Role** |
| Employee | A person who works for the company which uses the event management system. |
| Client | A person who makes use of the services provider by the company which uses the event management system. |
| Supplier | A person who provides goods used for the events. |
| Admin user | A person who has backend access to the event management system. |

### What are the benefits of this application?

This Project is especially designed for event managers. The event manager will be able to feed in keep record and project reports of his work. It provides a user-friendly approach for handling all the services. Some of the important features of the project are Events gives information about all the requirements of services and products of the event being organized. In this database manager will get every information about every event which is done, and which are going on in future.

### Functions and Features

An **Employee,** can create new orders for potential clients, generate sales reports, order for supplies, keep track of all arrangements.

A **client** can order for new events, pay for their orders.

An **admin,** can create new employee records, can modify/cancel existing orders, add new suppliers.

## Database Design

### ER Diagram

**Entities**

Client, Event Manager, Event admin. Supplier, Event, Invoice, Payment, Goods.

**Attributes:**

Client: User ID, Password, R- Password, Name, Address, Phone no, city, state Zip code, Email ID.

Event Manager: unique ID and a password

Employee: UID, password, role.

Supplier: Supplier Name, Supplier ID, Phone no, Email ID, address.

Event: Event type, EventId, Event Name.

Order: OrderID, Event ID, total amount, date, order status, Location.

Payment: Transaction ID, payment status, paid amount, balance amount, date.

Goods: ItemID, Name, Cost

**Relationships**:

Client – orders – Create orders

Orders – Event Manager – Takes orders

Event – Event Manager – Manages

Event Manager – Emp – reports

Goods– Supplier – Arranges

Event – Emp – Executes

Order – Payment - Pay

Event – Goods – Required.



### Object Model



### Relational model

To be filled

### SQL queries

### Get all active events.

### Select a.\* from [Order] (nolock) a join [Order\_Status] (nolock) b on a. id = b.id where b.is\_active = true.

### Get specific event organized by an employee

### Select a.\* from [Order] (nolock) a join [Employee] (nolock) b on a.event\_manager\_id = b.id

### Where b.id = {user input}

### Get events whose payment are incomplete

### Select a.\* from [Order] (nolock) a right join [Order\_Payments] b on a. id = b.order\_id

### Where b.order\_id IS NULL.

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| **Version Number** | **Date** | **Author/Owner** | **Description of Change** |
| V1 | 10-04-2022 | Hannah | Initial Draft |