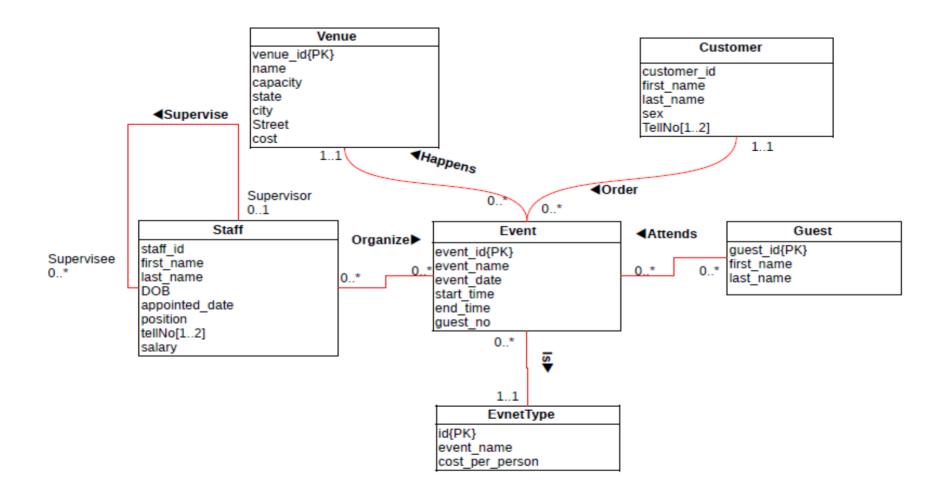
Event Organizing RDBMS

Advanced Database

Use of the database

• The purpose of this project is to develop and implement an event organizing database system that can provide user-friendly solution that can facilitate and improve event organizing. The system will allow users to create and manage events, book and allocate venues, register and communicate with attendees, and perform other related tasks. Additionally, on the staff side of the program, staff members will have the capability to view their assigned tasks, access and update their personal information. This comprehensive solution aims to streamline event management processes, enhance efficiency, and provide a seamless experience for both organizers and staff members.



Table's in the DataBase

```
Customer (Id, first_name, last_name, tellNo1,tellNo2,password)
Event(Id, event name, type id, venue_Id, customer_id, event_date, start_time,
                                                                                  quest no)
EventGuests(event id, guest id)
EventStaff(event id, staff id)
EventType(id, type name, cost per person)
Guest(id, first name, last name)
Staff (id, first name, last name, sex, position id, supervisor id, DOB, supervisor id)
StaffPosition(id, position, salary)
Venue(Id, name, capacity, state, city, street, price)
```

Views

View: is a virtual table based on the result set of a SELECT query.

There are two view in the database which are

```
Given Task:
                           CREATE OR REPLACE VIEW given tasks AS
                           SELECT
                               staff id,
                               event id,
                               event name,
                               venue.name AS venue name,
                               event date,
                              INITCAP(customer.first name) | | ' ' | INITCAP(customer.last name) AS customer,
                              customer.tellNo1
                           FROM
                               staff
                           JOIN
                              eventstaff ON staff.id = eventstaff.staff id
                          JOTN
                               event ON event.id = eventstaff.event id
                              venue ON event.venue id = venue.id
                          JOTN
                              customer ON event.customer id = customer.id;
```

Show_Event_Guests: CREATE OR REPLACE view show_event_guests AS SELECT event_id, guest_id, initcap(first_name) ||' '|| initcap(last_name) AS guest_name FROM event JOIN eventGuests on event.id = event_id JOIN guest on guest_id = guest.id;

Sequences

sequence is a database object used to generate unique sequential values.

There are

Triggers

 Triggers: are automatically executed (or fired) in response to specified database events, such as INSERT, UPDATE, DELETE, or DDL (Data Definition Language) statements like CREATE, ALTER, or DROP.

Triggers in the database

Stored Procedures

 Stored procedures are commonly used to encapsulate business logic, perform complex data manipulation, enforce security policies, and improve performance.

Stored procedures in the dataBase

Indexes

 Indexes: are database structures used to improve the performance of queries by providing faster access to rows in tables.

Indexes in the database

```
search_customer: CREATE INDEX search customer
ON customer(first name, last name, password);

search_staff: CREATE INDEX search staff ON staff(first name, last name, password);
```

Functions

Functions: in Oracle are custom functions created by users to encapsulate specific logic or calculations.

Functions in the database

The End