

#Assumptions made:

- each person in the DB should be a member, facilitator or assistant with unique id and combined data of (first name, last name, birth date) which is considered as unique for each instance.
- each person has a unique id.
- each person can act in many characters at different times (member, assistant, facilitator), but should act at least in one actor of them (total constraint).
(ex: an assistant of exclusive-to-business events can be a member of open-to-public event) (overlapping of actors),
(ex: a facilitator can act as a member of another event).
- each person will give some information about him if it's his first time to participate/facilitate/assist in events, (it helps in organizing events and gathering data about actors).

- event_info is a unique attribute, that prevents booking 2 or more event in the same time & date & room of a specified venue.

- each facilitator has a specified qualification that describes his experience in which type of events he can facilitate well.

- each assistant has a specified training that describes any data belongs to his trainings or health.

- each venue has a specified number of rooms, and its specified address of (country, city, street information), each venue has unique id, name which can't be duplicated with any another venue, but all entities can access the venue by its id only.

- an event should be exclusive-to-business events or open-to-public events and can't be any another type of events (total constraint).
- in each event "event_info" which is a combination of (venue_id, room_id, date_time) is considered as unique for each instance.
- an event may be either exclusive-to-business event or open-to-public event, but shouldn't be both of them at the same time (disjoint events).
- each event has a specified date and time and the room of a venue in which it will happen.
- each event requires only one facilitator to manage it.

- exclusive-to-business event requires only one assistant.
- each exclusive-to-business event has a name of business.

- each room has its id and the id of the venue in which it exist, room is a weak entity because it doesn't have any primary key to make its instances distinct, each room has a specified max capacity and each room will take a number from 1:n (where n is the number of rooms).

#Design decisions:

- 1-a facilitator can decide to manage/facilitate only one event at the same time or can be another actor in another event.

- 2-an assistant should assist in only one exclusive-to-business event at the same time or can be another actor in another event, but organizing events requires one facilitator + one assistant (if it's exclusive-to-business event).

- 3-a member of this company can decide in which event he's going to participate, and which event he's going to register.

- 4-each event can be specified in a selected venue and a selected room, but 2 or more can't be met in the same room. (1 or more events can be met in the same venue).

- 5-an assistant can choose to assist in an exclusive-to-business event or can be another actor in the company.

- 6-making more than one event in same room, same venue, same time isn't allowed.