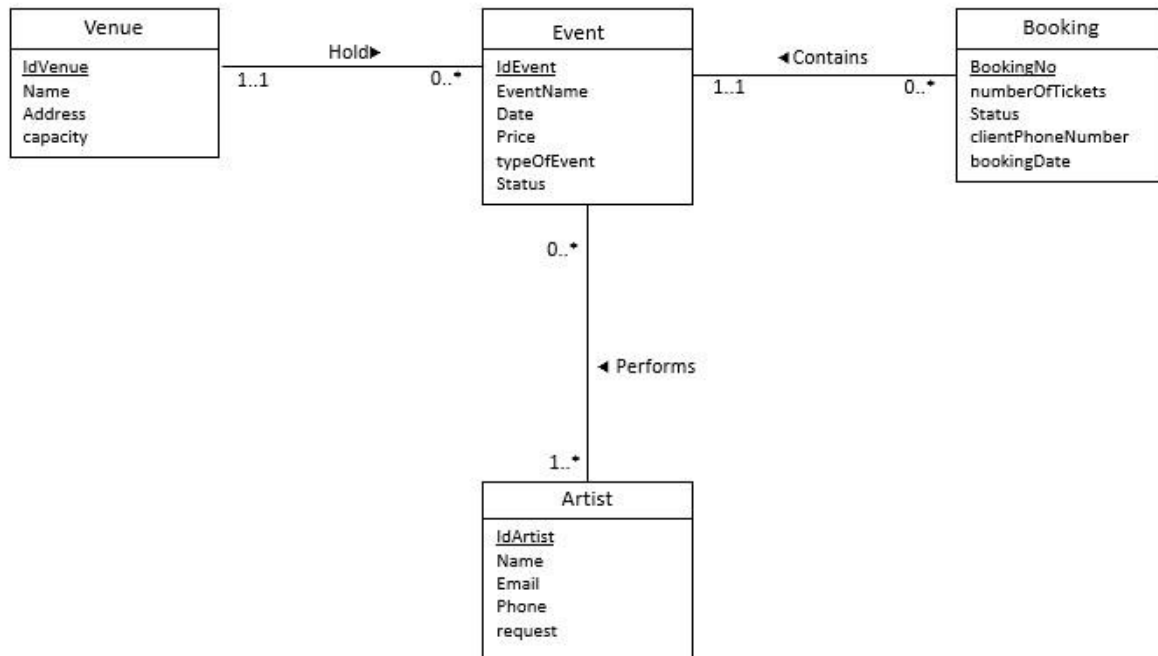## 1.1 ER Diagram

1.2 Relational Schemas

VENUE(<u>idvenue</u>, name, address, capacity)
EVENT(<u>idEvent</u>, eventName, date, price, typeOfEvent, status, idvenue)
FK(idVenue) **REFERENCES VENUES**(idVenue)

EVENT(<u>idEvent</u>, eventName, date, price, typeOfEvent, status, idvenue)
BOOKING(<u>bookingId</u>, numberOfTickets, status, clientPhoneNumber, bookingDate, idEvent)
FK(idEvent) **REFERENCES EVENT**(idEvent)

EVENT(<u>idEvent</u>, eventName, date, price, typeOfEvent, status, idvenue)
ARTIST(<u>idArtist</u>, name, email, phone, request)

EVENT_ARTIST(<u>idEvent</u>, <u>idArtist</u>)
FK(idEvent) **REFERENCES EVENT**(idEvent)
FK(idArtist) **REFERENCES ARTIST**(idArtist)

1.3 Repository

ENTITY TYPE DESCRIPTIONS

ENTITY TYPE	Description	Synonyms, aliases	Occurrence
Venue	Premises where an event has taken place.	Hall, location, concert hall, venue site	There are 3 venues with capacity, 120, 600, and 1200. More venues can be added in the future
Event	A performance of one or multiple artists.	Concert, gig	Many events take place yearly. One single event can include multiple artists.
Artist	A local or international artist.	Performer, singer, dancer, actor, musician	Local and foreign artists are registered. An artist can perform several times a year
Booking	A reservation method for tickets to an event.	Reservation, ticket reservation, ticket booking	Bookings are not allowed to surpass the capacity of the venue of the event, one ticket can contain only one single event ticket.

ATTRIBUTE TYPE DESCRIPTIONS

Event

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
event name	Unique name of the event	Text	Yes	-	-
event date	The date when the event takes place	Date	Yes	-	-
price	The price of the tickets of the event	Decimal	Yes	-	-
venue	Venue where the event is hold	Integer	Yes	-	-
type of event	Type of event	Text	Yes	-	Concert, Dance, Theater
status	Status of the event	Text	Yes	-	Confirmed, Cancelled

Booking

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
booking	Unique number of the booking	Integer	Yes	Yes	-
event	Event booked	Text	Yes	-	-
number of tickets	Number of tickets in the booking	Integer	Yes	-	-
status	Status of the ticket	Text	Yes	-	Booked, Paid, Cancelled
client phone	Phone number of the buyer of the booking	Text	Yes	-	-
Booking date	Date when the booking was done	Date	yes	-	-

Artist

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
idArtist	Unique number to identify an artist	INTEGER	Yes	Yes	-
name	Name of the artist	TEXT	Yes	-	-
email	Email for artist	TEXT	Yes	-	-
phone	Phone number for artist	TEXT	Yes	-	-
request	Special requests for catering and refreshments (based on artist needs)	TEXT	No	-	-

Venue

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
idVenue	Unique number to identify an artist	INTEGER	Yes	Yes	-
name	Name of the venue	TEXT	Yes	-	-
address	Address of the venue	TEXT	Yes	-	-
capacity	Capacity of the venue	INTEGER	Yes	-	

Event_Artist

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
idEvent	Unique number to identify an event	Integer	Yes	Yes	-
idArtist	Unique number to identify an artist	Integer	Yes	Yes	-

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TABLE DESCRIPTIONS

Event

Attribute type	Description	Data type	Value required	Keys	Special domain
idEvent	Unique ID number of the event	INTEGER	Yes	PRIMARY KEY (surrogate key)	Autonumber column
eventName	Name of the event	VARCHAR(40)	Yes	-	-
date	The date when the event takes place	DATE	Yes	-	-
price	The price of the tickets of the event	DECIMAL (6,2)	Yes	-	-
idVenue	ID number of the venue where the event is hold	INTEGER	Yes	FOREIGN KEY 1 => Venue	-
typeOfEvent	Type of event	CHAR(1)	Yes	-	'C' Concert, 'D, Dance, 'T' Theater
status	Status of the event	VARCHAR(3)	Yes	-	'ON' Confirmed, 'OFF' Cancelled

Booking

Attribute type	Description	Data type	Value required	Keys	Special domain
idBooking	Unique ID number of the booking	INTEGER	Yes	PRIMARY KEY (surrogate key)	Autonumber column
idEvent	ID number of the event booked	INTEGER	Yes	FOREIGN KEY 1 => Event	-
numberOfTickets	Number of tickets in the booking	INTEGER	Yes	-	-
status	Status of the ticket	CHAR(1)	Yes	-	'B' Booked , 'P' Paid, 'C' Cancelled
clientPhoneNumber	Phone number of the buyer of the booking	VARCHAR(15)	Yes	-	-
bookingDate	The date when the booking was created	DATE	Yes	-	-

Artist

Attribute type	Description	Data type	Value required	Keys	Special domain
idArtist	Unique number to identify an artist	INTEGER	Yes	PRIMARY KEY (surrogate key)	-
name	Name of the artist	VARCHAR(40)	Yes	-	-
email	Email for artist	TEXT	Yes	-	-
phone	Phone number for artist	VARCHAR(15)	Yes	-	-
request	Special requests for catering and	VARCHAR(120)	No	-	-

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Case Assignment

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	refreshments (based on artist needs)				

Venue

Attribute type	Description	Data type	Value required	Keys	Special domain
idVenue	Unique number to identify an artist	INTEGER	Yes	PRIMARY KEY (surrogate key)	-
name	Name of the venue	VARCHAR(40)	Yes	-	-
address	Address of the venue	VARCHAR(40)	Yes	-	-
capacity	Capacity of the venue	INTEGER	Yes	-	-

Event_Artist

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
idEvent	Unique ID number of the booking	INTEGER	Yes	PRIMARY KEY FOREIGN KEY 1 => Event	-
idArtist	Unique number to identify an artist	INTEGER	Yes	PRIMARY KEY FOREIGN KEY 2 =>	-

1.4 Database Diagram