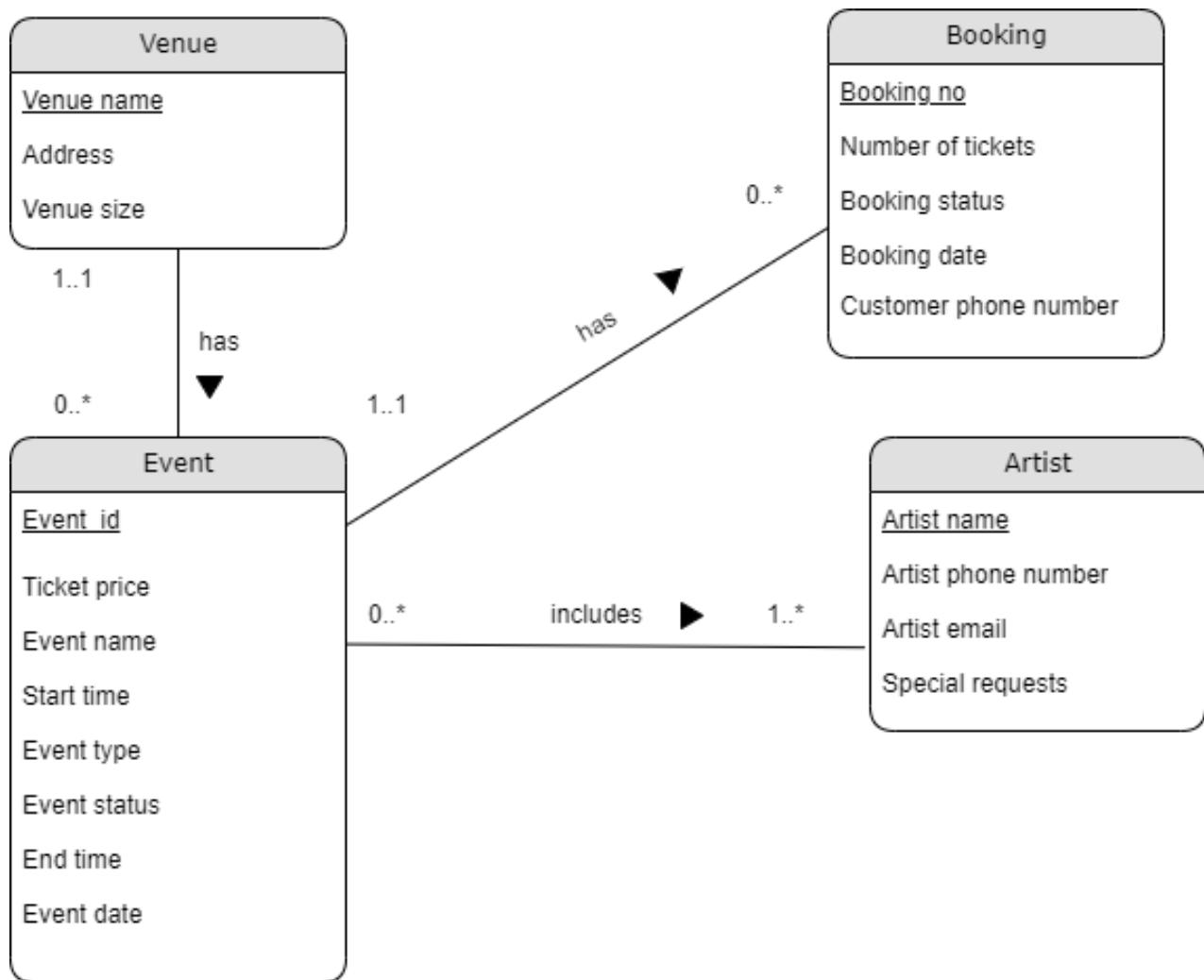


ER Diagram



Repository

DM REPOSITORY

ENTITY TYPE DESCRIPTIONS

ENTITY TYPE	Description	Synonyms, aliases	Occurrence
Booking	Ticket reservation to an event	Reservation	Bookings are for any number of tickets for one event at a time for one customer phone number.
Event	Name and type of gathering on a specific date and place	Occasion	The occasion requiring performers and customers to gather in one location/venue.
Venue	Place where a certain number of people can be gathered	Location/Premises	Location where events are hosted.
Artist	Performer at the event	Performer	Person who performs at events.

ATTRIBUTE TYPE DESCRIPTIONS

Booking

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Booking no	The unique booking number	Text	Yes		
Customer phone number	The customer's phone number	Text	Yes		Valid phone number format
Number of tickets	Total number of tickets	Integer	Yes		
Booking status	Status of the booking	Text	Yes		payment pending/paid/ cancelled/refunded
Booking date	Date booking reservation was made	Date	Yes		

Event

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Event id	Surrogate Key	Integer	Yes	Identity type	
Event name	The name of the event	Text	Yes		
Event date	The date of the event	Date	Yes		Date should not be in the past from booking date
Event status	The event status	Text	Yes		cancelled/scheduled/ended/ongoing
Event type	The type of the event	Text	No		
Ticket price	The cost of tickets	Integer	Yes		

Start time	The start time of the event	Time	Yes
End time	The end time of the event	Time	Yes

Venue

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Venue name	The name of the venue	Text	Yes		
Address	The venue addresses	Text	Yes		
Venue size	The capacity of the venue	Integer	Yes		Booking tickets shouldn't exceed venue size

Artist

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Artist name	The name of the artist	Text	Yes		
Artist phone	The home place of the club	Text	Yes		Valid phone number format
Artist email	The artist's contact person's email	Text	No		Correct email format/valid email
Special requests	Special requests the artist may have	Text	No		

Event_Artist

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
event id	Event surrogate key	Integer	Yes	PRIMARY KEY FOREIGN KEY References Event(event id)	
artist name	Performer's name	Text	Yes	PRIMARY KEY FOREIGN KEY References Artist(artist name)	

TABLE DESCRIPTIONS

Booking

Column	Description	Data type	Value required	Keys	Special domain
booking_no	Unique booking number	VARCHAR	Yes	PRIMARY KEY	
number_of_tickets	Number of tickets in booking	INTEGER	Yes		
booking_status	Booking status active / cancelled	VARCHAR	Yes		
booking_date	Booking date	DATE	Yes		Use current date on booking confirmation
customer_phone_number	Customer phone number	VARCHAR	Yes		valid phone number

event_id	Surrogate key for event	INTEGER	Yes	FOREIGN KEY References Event (event id)
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Event

Column	Description	Data type	Value required	Keys	Special domain
event_id	Event Id	INTEGER	Yes	PRIMARY KEY	
event_date	Event date	DATE	Yes		
event_name	Name of the event	VARCHAR	Yes		
event_status	Status of the event active / cancelled	VARCHAR(20)	Yes		DB check 'Active' or 'Cancelled'
start_time	Starting time of the event	TIME	Yes		Time format: hh:mm
end_time	Ending time of the event	TIME	Yes		Time format: hh:mm
event_type	Type of the event	VARCHAR(50)	Yes		
ticket_price	Price of the event ticket	INTEGER	Yes		
venue_name	Name of the event place	VARCHAR(50)	Yes	FOREIGN KEY References Venue(venue_name)	

Venue

Column	Description	Data type	Value required	Keys	Special domain
venue_name	Name of the venue	VARCHAR	Yes	PRIMARY KEY	
address	Address of the venue	VARCHAR	Yes		
venue_size	Size of the venue	INTEGER	Yes		

Artist

Column	Description	Data type	Value required	Keys	Special domain
artist_name	Name of the performer	VARCHAR	Yes	PRIMARY KEY	
artist_phone	Phone no of the performer	VARCHAR	Yes		valid phone number
artist_email	Email of the performer	VARCHAR	No		Correct email format/valid email
special_request	Special requests	VARCHAR	No		

Event_Artist

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
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event_id	Name of the occasion	INTEGER	Yes	PRIMARY KEY FOREIGN KEY References Event(event id)
artist_name	Performer's name	VARCHAR	Yes	PRIMARY KEY FOREIGN KEY References Artist(Artist name)

Relational schema

BOOKING (booking_no, customer_phone_number, number_of_tickets, booking_status, booking_date, event_id)
 FK (event_id) REFERENCES EVENT (event_id)

ARTIST (artist_name, artist_phone, artist_email, special_request)

EVENT (event_id, event_date, event_name, event_status, start_time, end_time, event_type, ticket_price, venue_name)
 FK (venue_name) REFERENCES VENUE (venue_name)

EVENT_ARTIST (event_id, Event name, Artist name)

 FK (event_id) REFERENCES Event (event_id)

 FK (artist_name) REFERENCES Artist (artist_name)

VENUE(venue_name, address, venue_size)

Database Diagram

