Abstract



Date



Database Design documentation

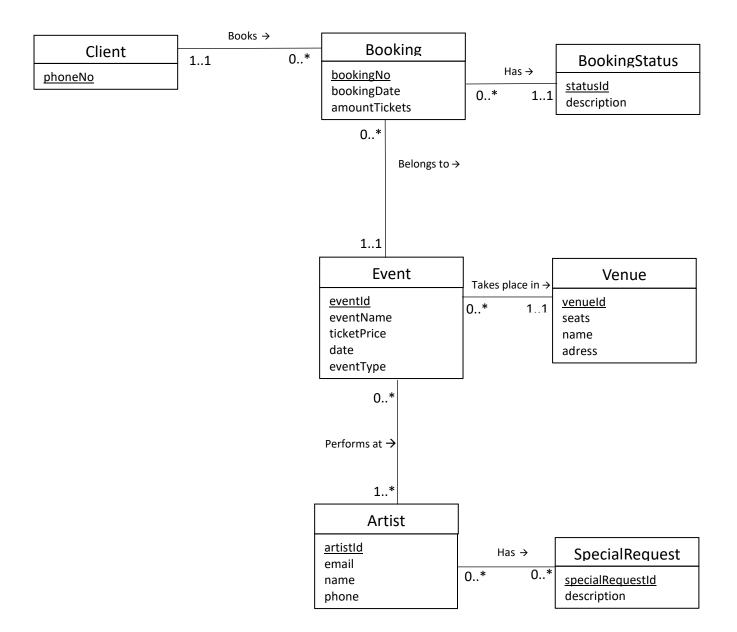
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1 ER diagram



2 Relational schema

Client(phoneNo)

Artist(artisId, , email, name, phoneNo)

SpecialRequest(<u>specialRequestId</u>, description)

Venue(venueld, seats, name, address)

Artist_SpecialRequest(artistId, specialRequestId)

FK artistId REFERENCES Artist(artistId)

FK specialRequestId REFERENCES SpecialRequest(specialRequestId)

Artist_Event(artistId, eventId)

FK (artistld) REFERENCES Artist (artistld)

FK (eventide) REFERENCES **Event** (eventId)

Booking(bookingNo, bookingDate, eventide, amountTickets, statusId, phoneNo)

FK (eventide) REFERENCES Event (eventide)

FK (statusId) REFERENCES BookingStatus (statusId)

FK (phoneNo) REFERENCES Client (phoneNo)

BookingStatus(statusId, description)

Events(eventId, eventType, eventName, venueId, price, date)

FK (venueld) REFERENCES Venue (venueld)

3 Repository

Entity type descriptions

ENTITY TYPE	Description	Synonyms, aliases	Occurrence
Client	A person who wants to attend an event	customer, fan, visitor	Every time an event is held there are between 200 and thousands of clients wanting to attend the event.
Booking	An intend of a client to buy the tickets at the Cardiff library	reservation,	Every time an event is held there is the possibility for the client to make a booking. There can be more than 3500 bookings per event but probably less.
BookingStatus	Determines what happened to a booking and what can happen in the future.	Update, booking possibilities	per booking the booking status can change 4 times.
Events	A gathering of people who have a ticket or are working during the event.	gig, happening, ex- perience	Since there are only 2 venues, there is a maximum of 2*365 = 730 times a year. But this depends on the amount of venues and actual bookings
Artist	A person who performs the event.	Performer, special guest, professional	Event may include performances from several different artists.
Venue	The place where an event takes place. It has limited place for people.	place, setting, site	There are at the moment only 2 venues available
SpecialRe- quest	Special request for catering and/or refreshments.	demand, inquiry, message	Artist may have (many) special request(s).

Attribute type descriptions

Client

Attribute type	Description	Data type	Value re- quired	Identity attribute or part of it	Special domain
phoneNo	The phone number of	int	Yes	Yes	Phone number
	the client on which is				range
	used to contact them.				
	In this case the pho-				
	neNo is also used to				
	uniquely identy them.				

Booking

Attribute type	Description	Data type	Value re- quired	Identity attrib- ute or part of it	Special do- main
bookingNo	Unique number of the booking	Integer	Yes	Yes	
booking- Date	Date when the client books the ticket for the event	Date	Yes	-	Valid date format
eventId	Event identifier	Integer	Yes	FK	-
am- mountTick- ets	Amount of tickets within one booking	Integer	Yes	-	-
statusId	Identifier of book- ing's current status	Integer	Yes	FK	-
phoneNo	Unique identifier of the client	Text	Yes	FK	Valid phone number format

BookingStatus

Attribute type	Description	Data type	Value re- quired	Identity attribute or part of it	Special domain
statusId	Represents the current status of client's booking	Integer	Yes	Yes	1
description	Description of booking statusId identifier	Text	Yes	-	Paid, Reserved, cancelled (artist side), refunded

Events

Attribute type	Description	Data type	Value re- quired	Identity attribute or part of it	Special domain
eventId	Unique identifier of the event	Integer	Yes	Yes	-
eventType	Description of eventide identifier	Text	Yes	-	-
venueld	Identifier of the place where the event will be held	Integer	Yes	FK	-
price	The amount of money to be paid for particular performance	Number	Yes	-	Valid currency format
Date	A day when the performance is held	Date	Yes	-	Valid date for- mat
eventName	The official name of the event	Text	Yes	-	-

Artist

Attribute type	Description	Data type	Value re- quired	Identity attribute or part of it	Special domain
artistId	The artist id identifies each artist uniquely	Integer	Yes	Yes	-
email	The email adress that is used to contact the artist	Text	Yes	-	-
name	The name of the artist that is used for promotions and announcements.	Text	Yes	-	-
phoneNo	The phone number that is used to contact the artists	Integer	Yes	AK	phonenumber
specialRe- questId	The special request id corresponds with a detailed description of a special request.	Integer	no	FK	
domestic	Y if artist is domestic. N if not	Text	Yes		Y,N

SpecialRequest

Attribute type	Description	Data type	Value re- quired	Identity attribute or part of it	Special domain
specialRe- questId	The special request id corresponds with a detailed description of a special request.	Integer	Yes	Yes	1
description	The description of what kind of whish the artist has. It can contain only one whish at the time.	Text	Yes	-	

Venue

Attribute type	Description	Data type	Value re- quired	Identity attribute or part of it	Special domain
venueld	The unique venueld identifies each venue	Integer	Yes	Yes	-
seats	The number of seats that are available for customers in each venue	Integer	Yes	-	
name	The name of the venue that can be used in promotions and location directions	Text	Yes	-	-
Address	Identifies the location of the venue	Text	yes	AK	-

Artist_Special request

Attribute type	Description	Data type	Value re- quired	Identity attribute or part of it	Special domain
ArtistId	The artist id identifies each artist uniquely	Integer	Yes	Yes	-
SpecialRe- questId	The special request id corresponds with a detailed description of a special request.	Integer	Yes	Yes	

Artist_Event

Attribute type	Description	Data type	Value re- quired	Identity attribute or part of it	Special domain
artistId	The artist id identifies	Integer	Yes	Yes	-
	each artist uniquely				
eventId	Event identifier	Integer	Yes	Yes	-

4 Database diagram

