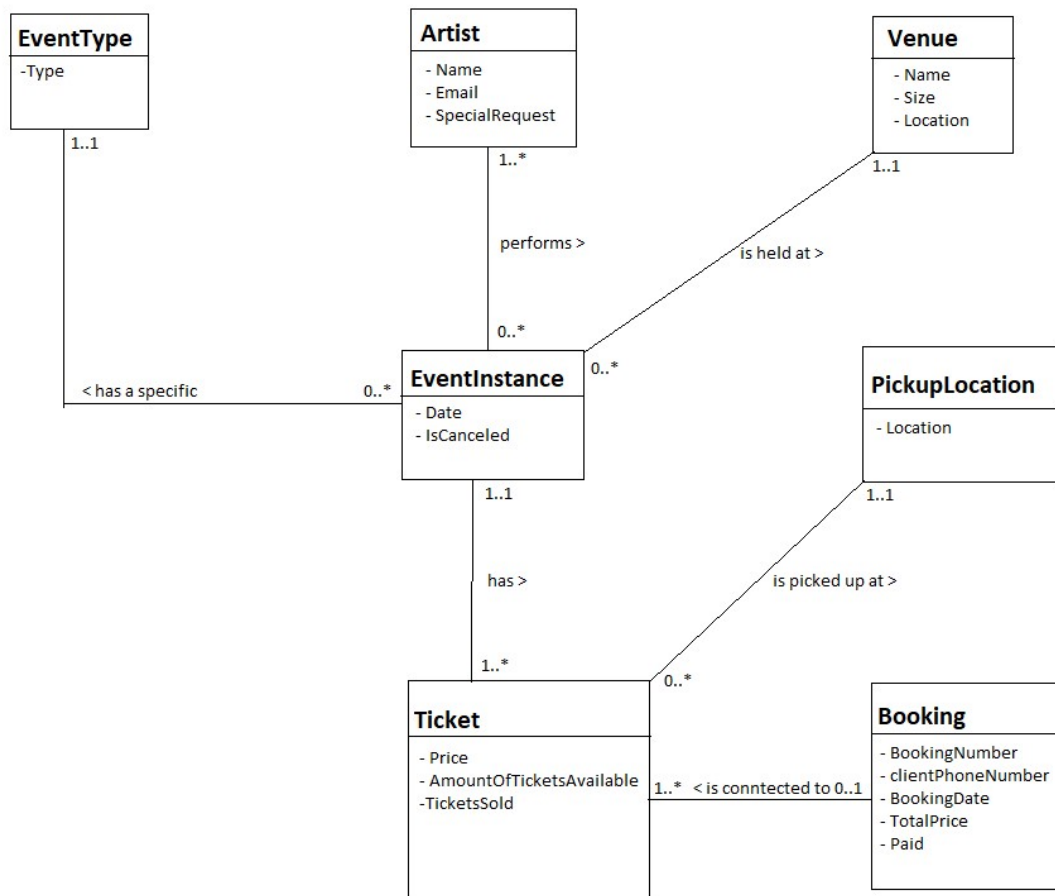


1.1 ER diagram



1.2 Relational schema

(Foreign keys in grey, primary key in green)

EventType (**EventTypeID**, type (concert, dance, theatre))

EventInstance (**EventInstanceID**, EventTypeID, date, ArtistID, isCanceled, VenueID)

Artist (**ArtistID**, name, email, specialRequests)

Ticket (**TicketID**, EventInstanceID, price, amountOfTicketsAvailable, ticketsSold)

Booking (**bookingNumber**, clientPhoneNumber, TicketID, bookingdate, PickupLocationID, totalPrice, paid)

PickupLocation (**PickupLocationID**, Location (Hobart town house, Hobart library))

Venue (**VenueID**, name, size, location)

1.3 Repository

ENTITY TYPE DESCRIPTIONS

ENTITY TYPE	Description	Synonyms, aliases	Occurrence
EventType	Dance, music or theatre	event	Several a year
Artist	A performer on one or more of the events	Musician, dancer, actor	Can participate in 1 or more events
Venue	The place where an event is held	Location, stage	Events use venues to hold their performances
EventInstance	Specific instance of an event	Event	Several a year
PickupLocation	Place where the ticket is picked up. Either at Hobart town house or Hobart library	Ticket pickup location	As many as tickets? I don't understand what I'm supposed to write here.
Ticket	Grants entrance to a specific event		
Booking	Contains all info on event type, date, artists, price, paid and customer phone nr. May contain several tickets		

ATTRIBUTE TYPE DESCRIPTIONS

EventType

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Type	Specifies event type	Text	Yes	-	Dance, music, theatre

Venue

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Size	The place where an event is held when completing the brevet	Integer	Yes	-	80, 100, 200, 400, 700
Name	The name of the venue	Text	Yes	-	-
Location	The address of the venue	Text	Yes	-	-

Artist

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Name	Artist name	Text	Yes	-	
Email	Artist email	Text	Yes	-	Valid Email
SpecialRequest	Artists wishes e.g. foods and drinks	Text	No	-	

EventInstance

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Date	When the event is held	Date	Yes	-	
IsCanceled	To know when an event is cancelled	Boolean	Yes	-	

PicupLocation

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Location	Address of pickup location for the tickets	Text	Yes	-	Hobart town house, Hobart library

Ticket

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Price	Price of a ticket	Integer	Yes	-	
AmountOfTicketsAvailable	Number of tickets still available	Integer	Yes	-	
TicketsSold	Number of tickets sold	Integer	Yes	-	

Booking

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
BookingNumber	Booking number	Text	Yes	-	
ClientPhoneNumber	Client's phone number	Text	Yes	-	Valid phone number format
BookingDate	Date of booking	Date	Yes	-	
TotalPrice	Total price of a booking	Integer	Yes	-	
Paid	Keeps track whether the booking is paid or not	Boolean	Yes	-	

Some sample SQL queries I used for testing

What dance performances are coming up this month?

```
SELECT *  
FROM EventInstance  
JOIN EventType ON (EventInstance.eventTypeId = EventType.eventTypeId)  
WHERE type = 'dance'
```

What is Alexi Laiho's contact email?

```
SELECT email  
FROM Artist  
WHERE name = 'aleksi laiho'
```

What events are coming up this month? Where are these events held?

```
SELECT type, Artist.name AS 'Artist', Venue.name AS 'Venue', date, location  
FROM EventInstance  
JOIN Venue ON (EventInstance.venueID = Venue.VenueID)  
JOIN EventType ON (EventInstance.EventTypeID = EventType.EventTypeID)  
JOIN Artist ON (EventInstance.ArtistID = Artist.ArtistID)  
Where DATENAME(month, date) = DATENAME(month, GETDATE())
```

