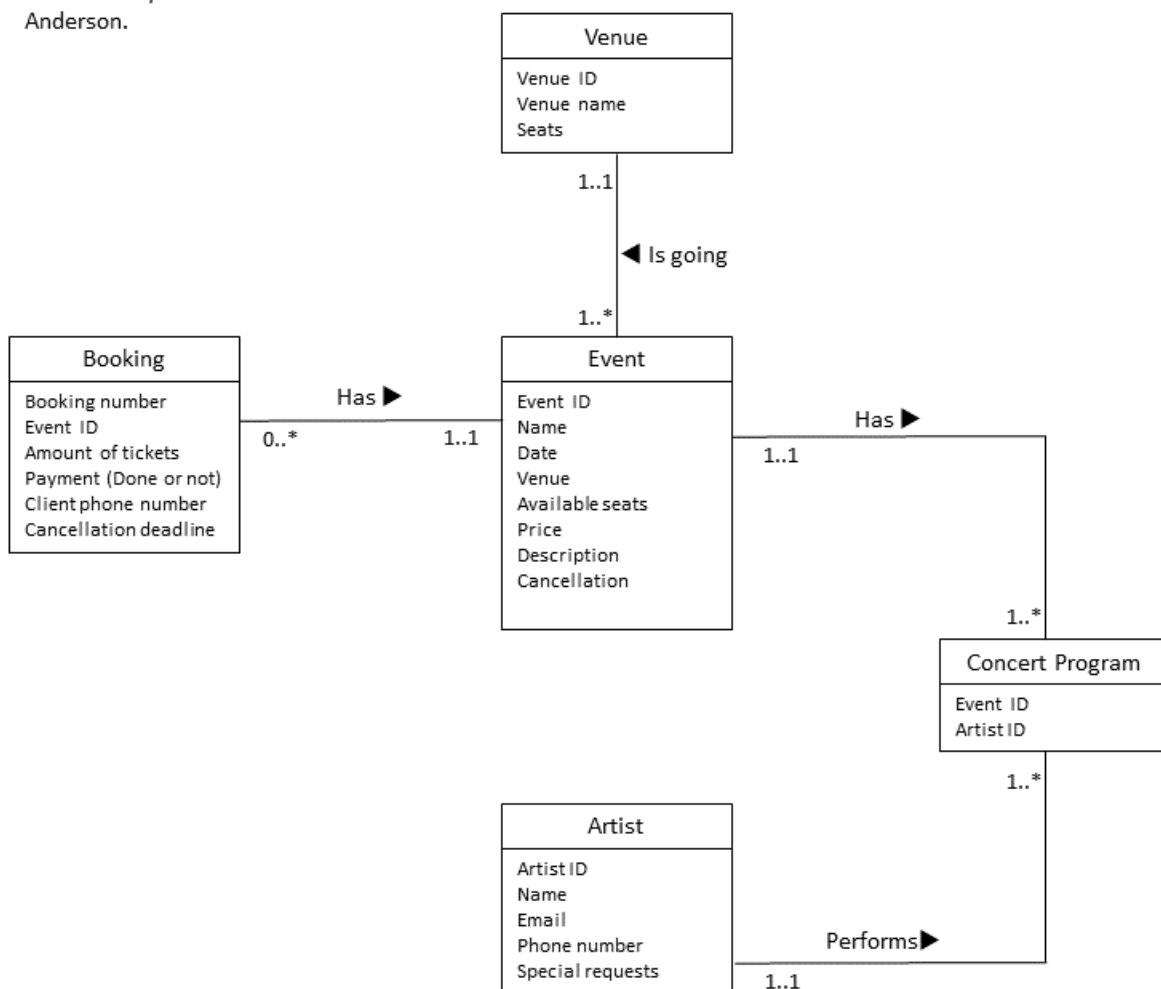


Completed tasks and working time:

- ER diagram (completed by Sofia Altusar-Anderson, working time: 40 min)
- Relational schemas (completed by Sofia Altusar-Anderson, working time: 10 min)
- BCNF validation (completed by Sofia Altusar-Anderson, working time: 10 min)
- Repository (completed by Sofia Altusar-Anderson, working time: 40 min)

## ER DIAGRAM

ERD Case Assignment.  
Was done by Sofia Altusar-Anderson.



## RELATIONAL SCHEMAS

Venue (venueID, venueName, seats)

Event (eventID, eventName, date, venue, availableSeats, price, description, cancellation)  
FK venue REF Venue(venueID)

Artist(artistID, artistName, artistPhone, artistEmail, preferences)

ConcertProgram(eventID, artistID)  
FK eventID REF Event(eventID)  
FK artistID REF Artist (artistID)

Booking (bookingNumber, eventID, tickets, completedPayment, cancellationDeadline)  
FK eventID REF Event(eventID)

*All schemas are BCNF.*

## REPOSITORY

### ENTITY TYPE DESCRIPTIONS

ENTITY TYPE	Description	Synonyms, aliases	Occurence
Venue	A venue for events that belongs to Cardiff festival association.	Concert hall, auditorium.	Currently there are 2 venues but probably in future other venues will be available.
Event	An event that is organized by Cardiff festival association.	Concert, performance.	Events are organized all year round.
Artist	An artist who is performing in events that are organized by Cardiff festival association.	Singer, actor, dancer, showman, celebrity.	There is at least one artist performing in each event.
Concert Program	Program of an event. Contents an information about artists who are performing.	Performance, agenda.	There is a concert program for each event.

ENTITY TYPE	Description	Synonyms, aliases	Occurrence
Booking	A record of booking for the event.	Reservaation.	Amount of booking records is limited by number of events per year and by number of places in venue for the event.

## ATTRIBUTE TYPE DESCRIPTIONS

### 1. Venue

Attribute type	Description	Data type	Value required	Indentity attribute or part of it	Special domain
Venue Name	The name of a venue	Text	Yes	Yes	-
Seats	Total amount of seats in the venue	Integer	Yes	-	-

### 2. Event

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Name	Name of the event	Text	Yes	-	-
Date	Date when the event organized	Date	Yes	-	-
Venue	The place where concert is	Name	Yes	-	-
Available seats	Amount of available seats		Yes	-	>0
Price	Price for the event	Float	Yes	-	>0
Description	Description of the event, what kind of	Text	Yes	-	-

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
	performance will be there				
Cancellation	A status that let us know whether event cancelled or not.	Boolean	Yes	-	True or false

### 3. Artist

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Name	Name of an artist	Text	Yes	-	-
Email	Email of an artist	Text	Yes	-	Valid email format
Phone number	Contact phone number of an artist	Integer	Yes	-	-
Special requests	Special request of an artist for catering and refreshments	Text	No	-	-

### 4. Concert Program.

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Event ID	ID of an event	Integer	Yes	Yes	-
Artist ID	ID of an artist who is performing on an event	Integer	Yes	Yes	-

## 5. Booking

Attribute type	Description	Data type	Value required	Identity attribute or part of it	Special domain
Event ID	ID of an event	Integer	Yes	-	-
Amount of tickets	How many tickets are reserved.	Integer	Yes	-	>0
Completed payment	Status of payment. Whether it was done or not.	Boolean	Yes	-	True or false
Client's phone number	Phone number of a person that makes booking.	Integer	Yes	-	-
Cancellation deadline	A deadline when a booking will be cancelled if customer did not pay for tickets.	Date	Yes	-	the date of booking + 3 days

## TABLE DESCRIPTIONS

### 1. Venue

Attribute type	Description	Data type	Value required	Keys	Special domain
Venue id	Unique venue identifier	INTEGER	Yes	PRIMARY KEY (surrogate key)	Autonumber column
Venue Name	The name of a venue	VARCHAR (50)	Yes	-	-
Seats	Total amount of seats in the venue	INTEGGER	Yes	-	-

## 2. Event

Attribute type	Description	Data type	Value required	Keys	Special domain
Event ID	Unique event identifier	INTEGER	YES	PRIMARY KEY (surrogate key)	Autonumber column
Name	Name of the event	Text	Yes	-	-
Date	Date when the event organized	Date	Yes	-	Valid time format: :mm.
Venue ID	The place where concert is	INTEGER	Yes	FOREIGN KEY 1 => Venue	-
Available seats	Amount of available seats	INTEGER	Yes	-	>0
Price	Price for the event	FLOAT	Yes	-	>0
Description	Description of the event	VARCHAR (150)	-	-	-
Cancellation	Whether event is cancelled or not	BOOLEAN	Yes	-	True or False

## 3. Artist

Attribute type	Description	Data type	Value required	Keys	Special domain
Artists ID	Unique artist identifier	INTEGER	YES	PRIMARY KEY (surrogate key)	Autonumber column
Name	Name of an artist	VARCHAR (50)	Yes	-	-
Email	Email of an artist	VARCHAR (50)	Yes	-	-

Attribute type	Description	Data type	Value required	Keys	Special domain
Phone number	Contant phone number of an artist	VARCHAR (15)	Yes	-	-
Special requests	Special recuest of an artist for catering and refreshments	VARCHAR (180)	-	-	-

#### 4. Concert Program.

Attribute type	Description	Data type	Value required	Keys	Special domain
Event ID	ID of an event	Integer	Yes	IN PRIMARY KEY FOREIGN KEY 1 => Event	-
Artist ID	Id of an artistr who is performing on an event	Integer	Yes	IN PRIMARY KEY FOREIGN KEY 2 => Artist	-

#### 5. Booking

Attribute type	Description	Data type	Value required	Keys	Special domain
Booking Number	Unique booking number	INTEGER	Yes	PRIMARY KEY	Autonumber column

Attribute type	Description	Data type	Value required	Keys	Special domain
				(surrogate key)	
Event ID	ID of an event	INTEGER	Yes	FOREIGN KEY 1 => Event	-
Amount of tickets	How many tickets are reserved.	INTEGER	Yes	-	>0
Payment	Status of payment. Whether it was done or not.	BOOLEAN	Yes	-	True or False
Client phone number	Phone number of a person that makes booking.	INTEGER	Yes	-	-
Cancellation deadline	A deadline when a booking will be cancelled if customer did not pay for tickets.	DATE	Yes	-	Valid time format: dd.mm.yyyy, the date of booking + 3 days