Design of the database

Andrii Yanechko March 2022

1 Program Description

This is a database for ordering a ticket on the events.

2 Design database for CDP program

Main entities of the database are:

- User;
- Event;
- Ticket.

2.1 User entity

User entity, illustrated on a figure 2.1, represents user in the database and have several fields:

Name	Type	Description	Constraints	
id	integer	unique identifier of the user	Primary Key	
name	text	name of the user	Unique	
email	text	email of the user	Unique	
created_date text		date of instance creation in the UTC	N\A	
updated_date	text	date of the last update in the UTC	INA	

Indexes for user entity:

Name	Type	
name	B-tree	
email	B-tree	



Figure 1: User representation in the database

2.2 Event entity

Event entity, illustrated on a figure 2, represents event in the database and have several fields:

Name	Type	Description	Constraints	
id	integer	unique identifier of the event	Primary Key	
title	text	title of the event	Unique	
date	text	start date of the event in the UTC	Omque	
created_date text da		date of instance creation in the UTC	N\A	
updated_date	text	date of the last update in the UTC	1 IVA	

Indexes for event entity:

Name	Type
title	B-tree
date	B-tree



Figure 2: Event representation in the database

2.3 Ticket entity

Ticket entity, illustrated on a figure 3 , represents ticket in the database and have several fields:

Name	Type	Description	Constraints	
id	integer	unique identifier of the ticket	Primary Key	
user_id	integer	id of the user which has ordered this ticket	Secondary	Key
event_id	integer	id of the event on which ticket is booked	Secondary Key	Unique
place	integer	number of place of the ticket	N\A	Omque
category	string	category of the ticket		
created_date	string	date of instance creation in the UTC	N\A	
updated_date	string	date of the last update in the UTC		

Indexes for ticket entity:

Name	Type
event_id	B-tree
user_id	B-tree
category	B-tree

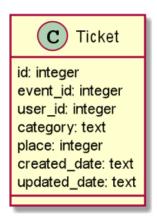


Figure 3: Ticket representation in the database