

Northeastern University
DAMG6210 - Data Management and Database Design

TEAM NAME - Runtime Terror

Name : NUID :

PROJECT TOPIC: Event Management System

TEAM FORMATION:

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PROBLEM STATEMENT:

In Universities such as Northeastern, events happen daily and we are not updated about every event. For Example, today there was a flash mob and an event where free groceries were being distributed. Only a handful of people came to attend the events resulting in a low morale for the dance performers of the flashmob and low sales of the event tickets. This being the problem, we realized that there should be a common platform for all Events to be advertised so more people know about it, more people are benefited and there can be more sales of tickets which benefit the event organizer.

OBJECTIVES:

To Create a centralized event management system which will be beneficial to both students as well as the event organizers. Students will be able to find out which events are happening and where on the campus, also they will be able to register for these events. And event organizers can manage their events through this system.

PROPOSED SOLUTION:

Although event calendars exist on the northeastern website, there are multiple of them. For Example, Career and employment portal has its own event calendar where they post events about employment related opportunities. But we are proposing to make a centralized event management system where you can register , or view all the events that take place at Northeastern on a daily basis. A student can apply filters and can get the necessary information from the system.

DATABASE IDENTIFICATION:

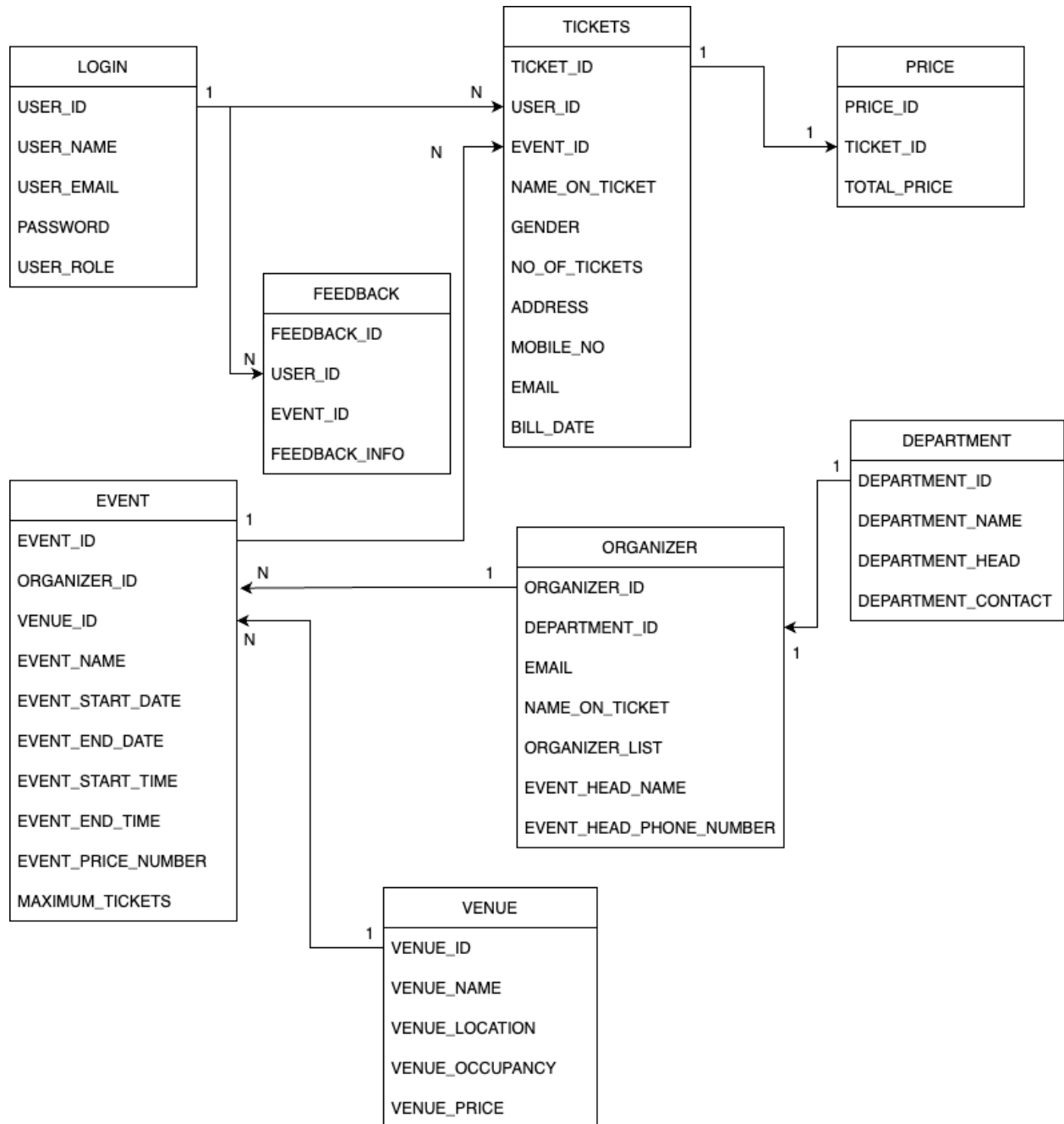
Entity Name	Attributes	Description
Login	user_id	User ID is a unique identifier assigned to each user.Primary Key
Login	emailId	Email ID is the mailing address of the each user who registers
Login	password	Password of the User who is trying to login
Login	user_role	There are 3 roles assigned : Admin, Student, Organizers
Tickets	ticket_id	Ticker ID is a unique identifier assigned to each ticket.Primary Key
Tickets	user_id	Foreign key from the Login table.
Tickets	event_id	Foreign key from the Events table.
Tickets	name	Name of the user who is going to the event.
Tickets	gender	Gender of the user who is going to the event.
Tickets	no_of_tickets	Number of people that are allowed to go on this ticket
Tickets	address	Address of the user who booked the ticket

Tickets	mobile_no	Mobile number of the user who booked the ticket.
Tickets	email	Email id of the user who booked the ticket.
Tickets	bill_date	The date on which the ticket was booked.
Organizer	organizer_id	Organizer ID is a unique identifier assigned to each organization.Primary Key
Organizer	department_id	Foreign key from the Departments table.
Organizer	email	Email Id of the organization
Organizer	organizer_list	List of all the people involved in the organization
Organizer	event_head_number	Phone number of the Event head.
Organizer	event_head_name	Name of the Event head.
Price	price_id	Price ID is a unique identifier assigned to each record.Primary Key
Price	total_price	
Price	ticket_id	
Events	event_id	Event ID is a unique identifier assigned to each event.Primary Key
Events	organizer_id	Foreign key from the organization table.
Events	venue_id	Foreign key from the Venue table.
Events	event_start_date	The date on which event is scheduled to take place.
Events	event_end_date	The date on which event is scheduled to end
Events	event_start_time	The Time on which event is scheduled to take place.
Events	event_end_time	The Time on which event is scheduled to end

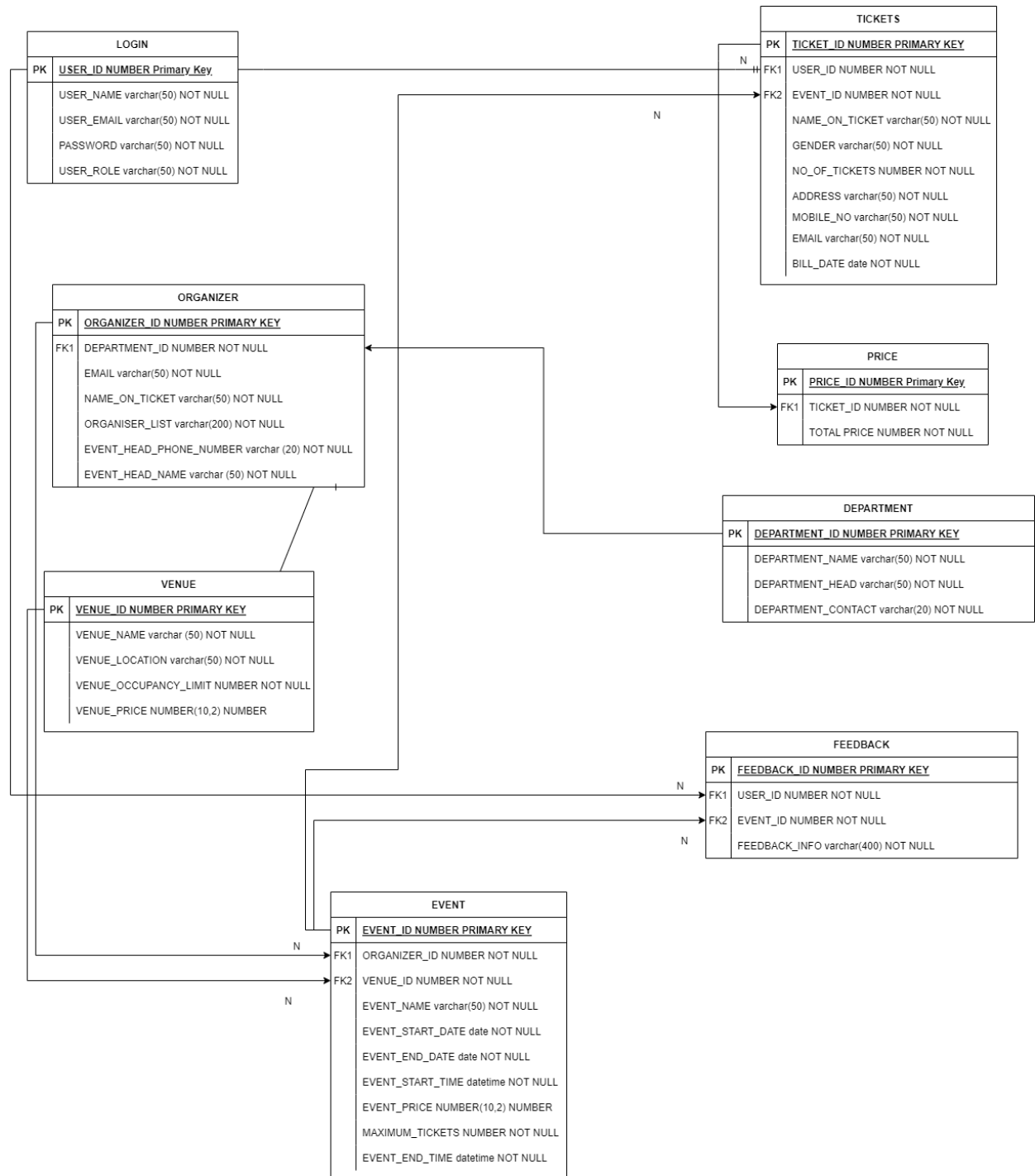
Events	event_price	Price for each ticket for the mentioned event
Events	max_tickets	Max number of tickets that can be sold for the event
Venue	venue_id	Venue ID is a unique identifier assigned to each Venue.Primary Key
Venue	venue_name	The name of the venue.
Venue	venue_location	The location/Address of the venue.
Venue	venue_occupancy_limit	Max occupancy of the venue
Venue	venue_price	Total price for renting the venue for 1 day.
Departments	department_id	Department ID is a unique identifier assigned to each Department.Primary Key
Departments	department_name	The name of the department
Departments	department_head	The name of the department head .
Departments	department_contact_phone_number	The phone number of the department head.
Departments	department_email	The Email ID of the department email.
Feedback	feedback_id	Feedback ID is a unique identifier assigned to each feedback.Primary Key
Feedback	user_id	User ID of the user who is giving the feedback
Feedback	feedback_info	The feedback content given by the user
Feedback	event_id	Foreign Key to Events table

ER DIAGRAM:

1) Conceptual Model



2) Logical Model



ITEM ENTITY:

ATTRIBUTES	DATA TYPE	COMMENTS
user_id	NUMBER	PRIMARY KEY, AUTOGENERATED
emailId	VARCHAR(50)	NOT NULL
password	VARCHAR(50)	NOT NULL
user_role	VARCHAR(50)	NOT NULL
ticket_id	NUMBER	PRIMARY KEY, AUTOGENERATED
user_id	NUMBER	FOREIGN KEY
event_id	NUMBER	FOREIGN KEY
name	VARCHAR(50)	
gender	VARCHAR(50)	
no_of_tickets	NUMBER	
address	VARCHAR(200)	
mobile_no	VARCHAR(10)	
email	VARCHAR(50)	
bill_date	DATE	
organizer_id	NUMBER	PRIMARY KEY, AUTOGENERATED
department_id	NUMBER	FOREIGN KEY
email	VARCHAR(50)	

organizer_list	VARCHAR(50)	
event_head_number	NUMBER(10)	
event_head_name	VARCHAR(50)	
price_id	NUMBER	PRIMARY KEY, AUTOGENERATED
total_price	VARCHAR(50)	
ticket_id	NUMBER	FOREIGN KEY
event_id	NUMBER	PRIMARY KEY, AUTOGENERATED
organizer_id	NUMBER	FOREIGN KEY
venue_id	NUMBER	FOREIGN KEY
event_start_date	DATE	
event_end_date	DATE	
event_start_time	DATETIME	
event_end_time	DATETIME	
event_price	NUMBER(10,2)	
max_tickets	NUMBER(10)	
venue_id	NUMBER	PRIMARY KEY, AUTOGENERATED
venue_name	VARCHAR(50)	
venue_location	VARCHAR(50)	
venue_occupancy_limit	NUMBER(10)	
venue_price	NUMBER(10,2)	
department_id	NUMBER	PRIMARY KEY, AUTOGENERATED

department_name	VARCHAR(50)	
department_head	VARCHAR(50)	
department_contact_phone_number	VARCHAR(10)	
department_email	VARCHAR(50)	
feedback_id	NUMBER	PRIMARY KEY, AUTOGENERATED
user_id	NUMBER	FOREIGN KEY
feedback_info	VARCHAR(200)	
event_id	NUMBER	FOREIGN KEY