Boston Area Activities

The Databasers

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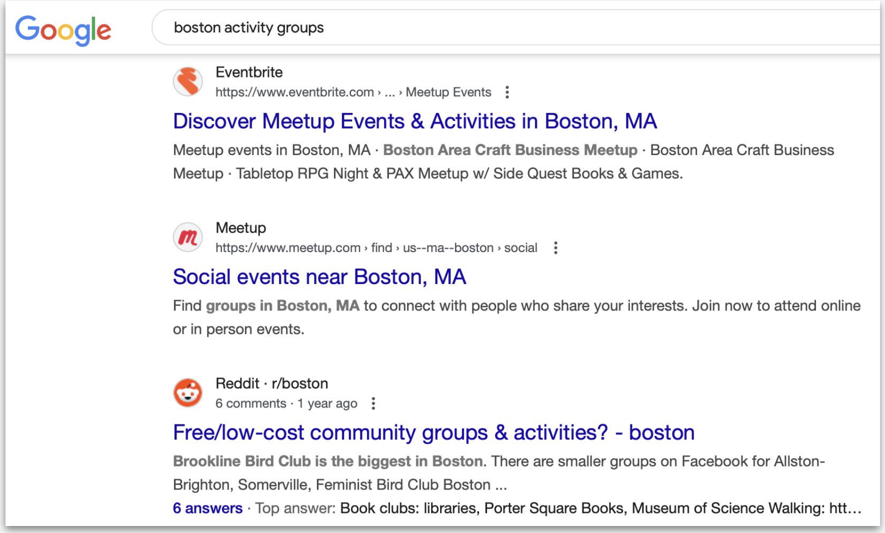
The Real-World Problem

- Lack of a centralized database of local activity groups in the Boston area



boston activity groups

Eventbrite
https://www.eventbrite.com › ... › Meetup Events

Discover Meetup Events & Activities in Boston, MA

Meetup events in Boston, MA · **Boston Area Craft Business Meetup** · Boston Area Craft Business Meetup · Tabletop RPG Night & PAX Meetup w/ Side Quest Books & Games.

Meetup
https://www.meetup.com › find › us--ma--boston › social

Social events near Boston, MA

Find **groups in Boston, MA** to connect with people who share your interests. Join now to attend online or in person events.

Reddit · r/boston
6 comments · 1 year ago

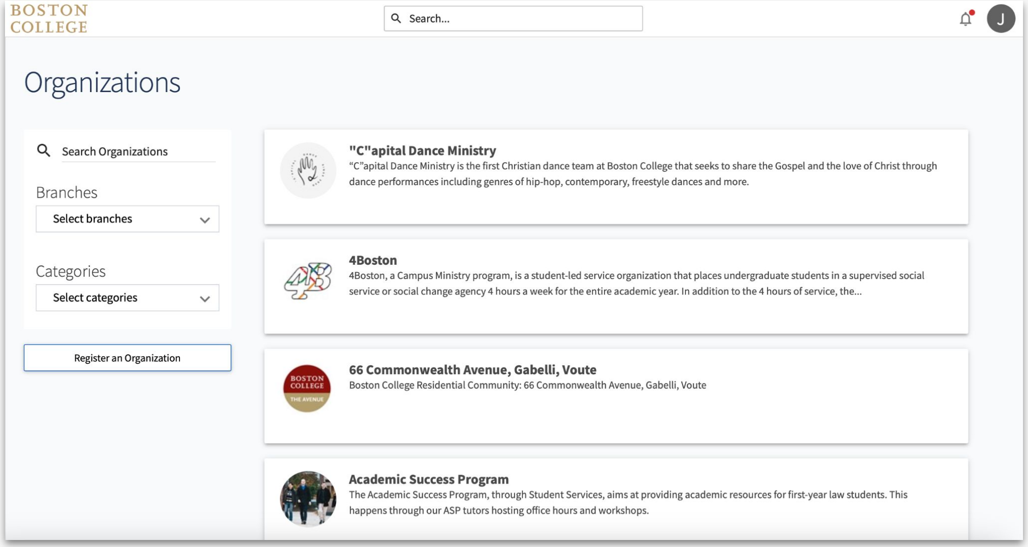
Free/low-cost community groups & activities? - boston

Brookline Bird Club is the biggest in Boston. There are smaller groups on Facebook for Allston-Brighton, Somerville, Feminist Bird Club Boston ...

6 answers · Top answer: Book clubs: libraries, Porter Square Books, Museum of Science Walking: htt...

The Real-World Solution

- An all-in-one web application to discover and engage with local activity groups
- Browse, join, and create groups and events!



Organizations

"C"apital Dance Ministry
"C"apital Dance Ministry is the first Christian dance team at Boston College that seeks to share the Gospel and the love of Christ through dance performances including genres of hip-hop, contemporary, freestyle dances and more.

4Boston
4Boston, a Campus Ministry program, is a student-led service organization that places undergraduate students in a supervised social service or social change agency 4 hours a week for the entire academic year. In addition to the 4 hours of service, the...

66 Commonwealth Avenue, Gabelli, Voute
Boston College Residential Community: 66 Commonwealth Avenue, Gabelli, Voute

Academic Success Program
The Academic Success Program, through Student Services, aims at providing academic resources for first-year law students. This happens through our ASP tutors hosting office hours and workshops.

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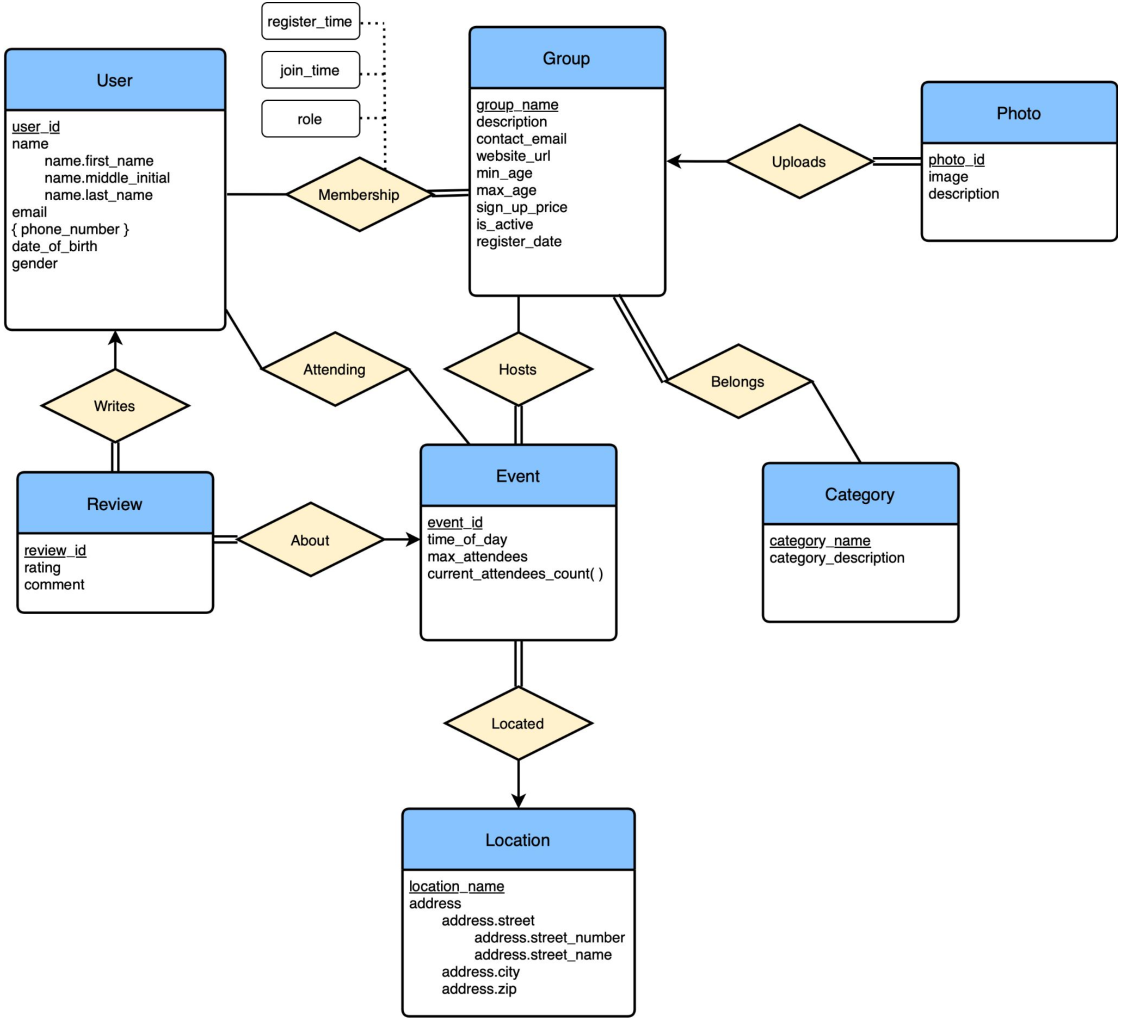
E-R Analysis



register_time

join_time

role

User

user_id
name
name.first_name
name.middle_initial
name.last_name
email
{ phone_number }
date_of_birth
gender

Membership

Group

group_name
description
contact_email
website_url
min_age
max_age
sign_up_price
is_active
register_date

Uploads

Photo

photo_id
image
description

Writes

Attending

Hosts

Belongs

Review

review_id
rating
comment

About

Event

event_id
time_of_day
max_attendees
current_attendees_count( )

Category

category_name
category_description

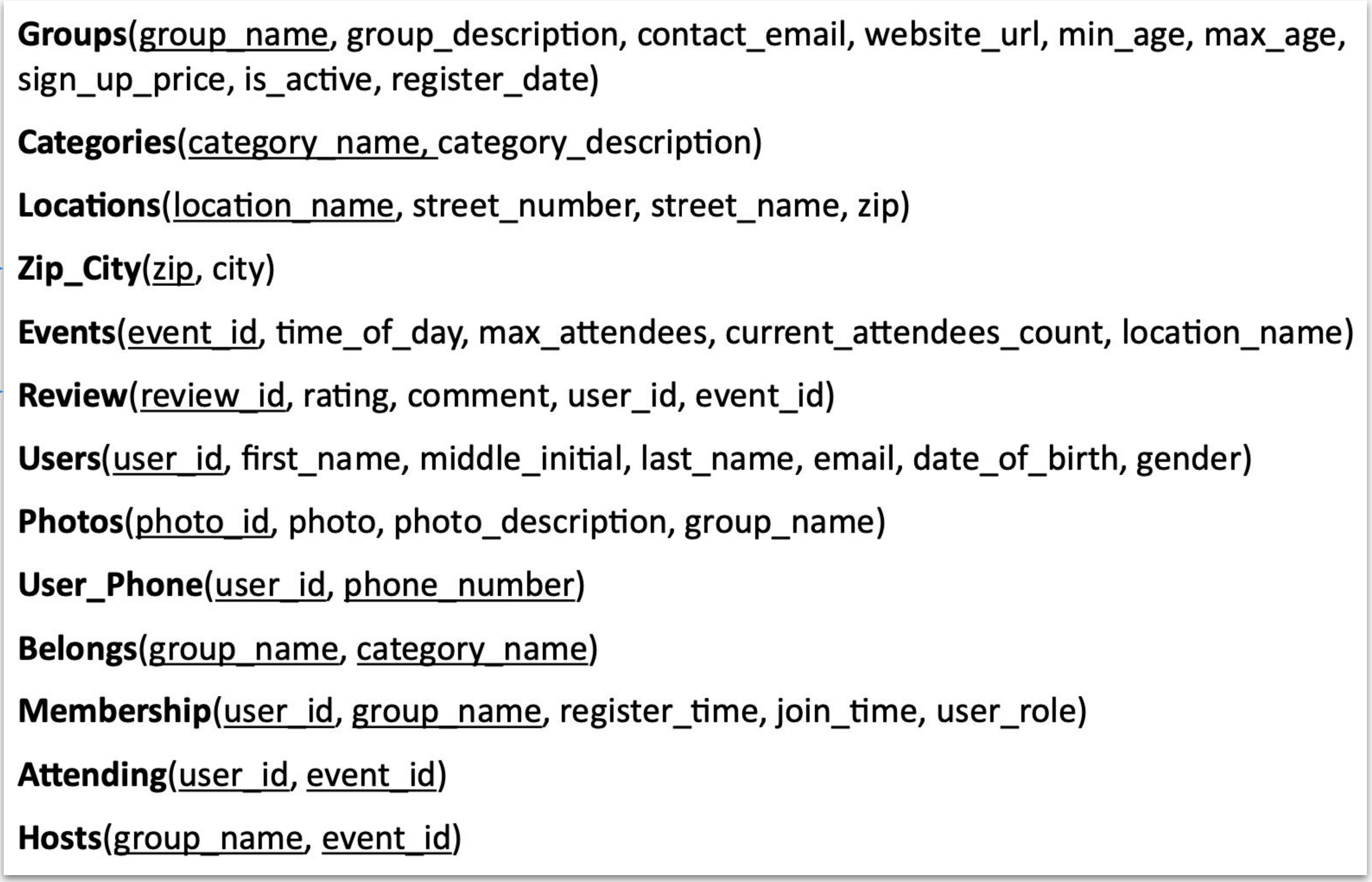
Located

Location

location_name
address
address.street
address.street_number
address.street_name
address.city
address.zip

2

Database Schema



Groups(group_name, group_description, contact_email, website_url, min_age, max_age, sign_up_price, is_active, register_date)

Categories(category_name, category_description)

Locations(location_name, street_number, street_name, zip)

Zip_City(zip, city)

Events(event_id, time_of_day, max_attendees, current_attendees_count, location_name)

Review(review_id, rating, comment, user_id, event_id)

Users(user_id, first_name, middle_initial, last_name, email, date_of_birth, gender)

Photos(photo_id, photo, photo_description, group_name)

User_Phone(user_id, phone_number)

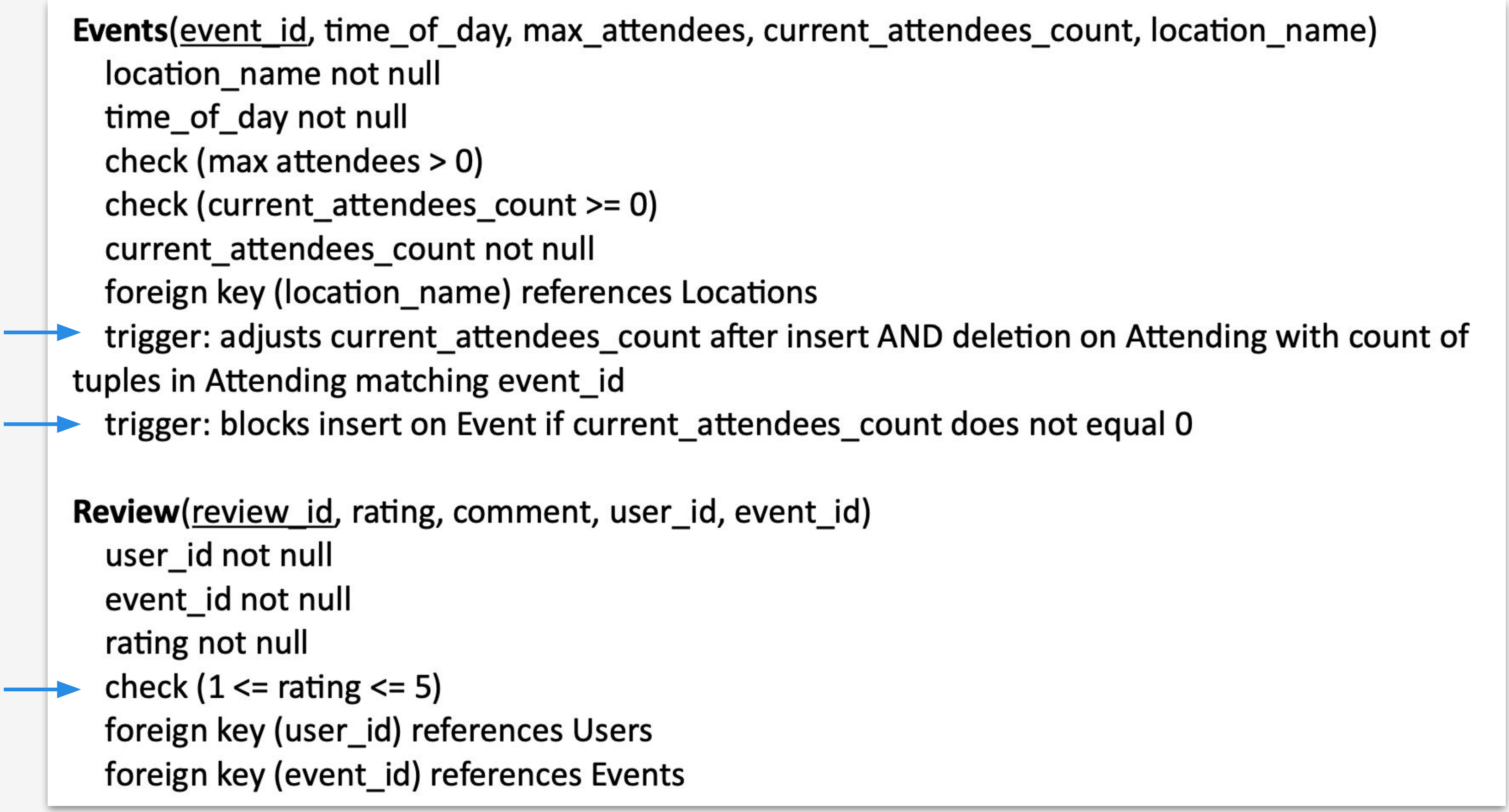
Belongs(group_name, category_name)

Membership(user_id, group_name, register_time, join_time, user_role)

Attending(user_id, event_id)

Hosts(group_name, event_id)

many-to-many



Events(event_id, time_of_day, max_attendees, current_attendees_count, location_name)

location_name not null

time_of_day not null

check (max attendees > 0)

check (current_attendees_count >= 0)

current_attendees_count not null

foreign key (location_name) references Locations

trigger: adjusts current_attendees_count after insert AND deletion on Attending with count of tuples in Attending matching event_id

trigger: blocks insert on Event if current_attendees_count does not equal 0

Review(review_id, rating, comment, user_id, event_id)

user_id not null

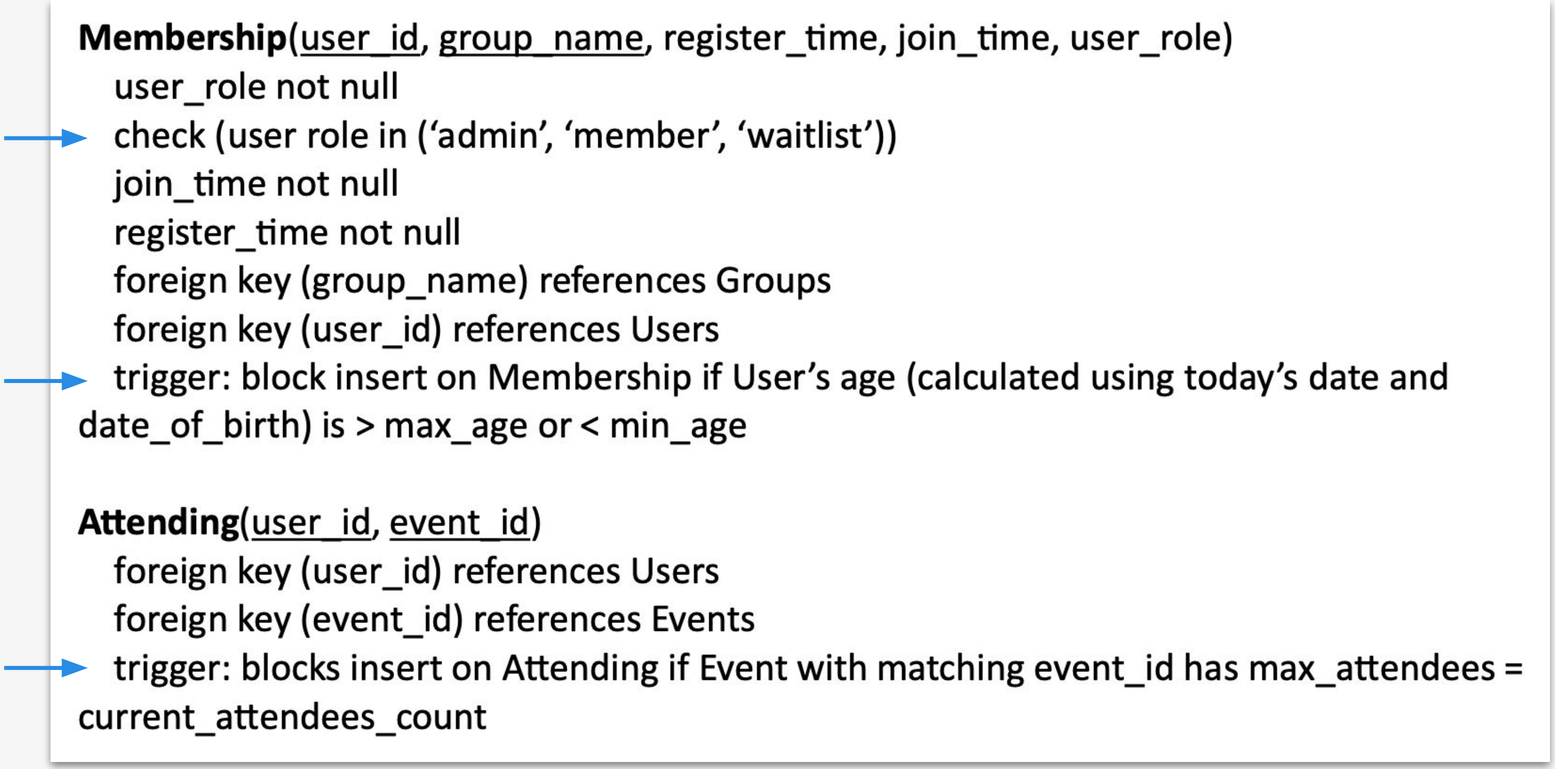
event_id not null

rating not null

check (1 <= rating <= 5)

foreign key (user_id) references Users

foreign key (event_id) references Events



Membership(user_id, group_name, register_time, join_time, user_role)

user_role not null

check (user role in (‘admin’, ‘member’, ‘waitlist’))

join_time not null

register_time not null

foreign key (group_name) references Groups

foreign key (user_id) references Users

trigger: block insert on Membership if User’s age (calculated using today’s date and date_of_birth) is > max_age or < min_age

Attending(user_id, event_id)

foreign key (user_id) references Users

foreign key (event_id) references Events

trigger: blocks insert on Attending if Event with matching event_id has max_attendees = current_attendees_count

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Web Application

Features

User authentication

Browse groups by name or category

Join/leave/create **groups**

Join/drop/create **events**