

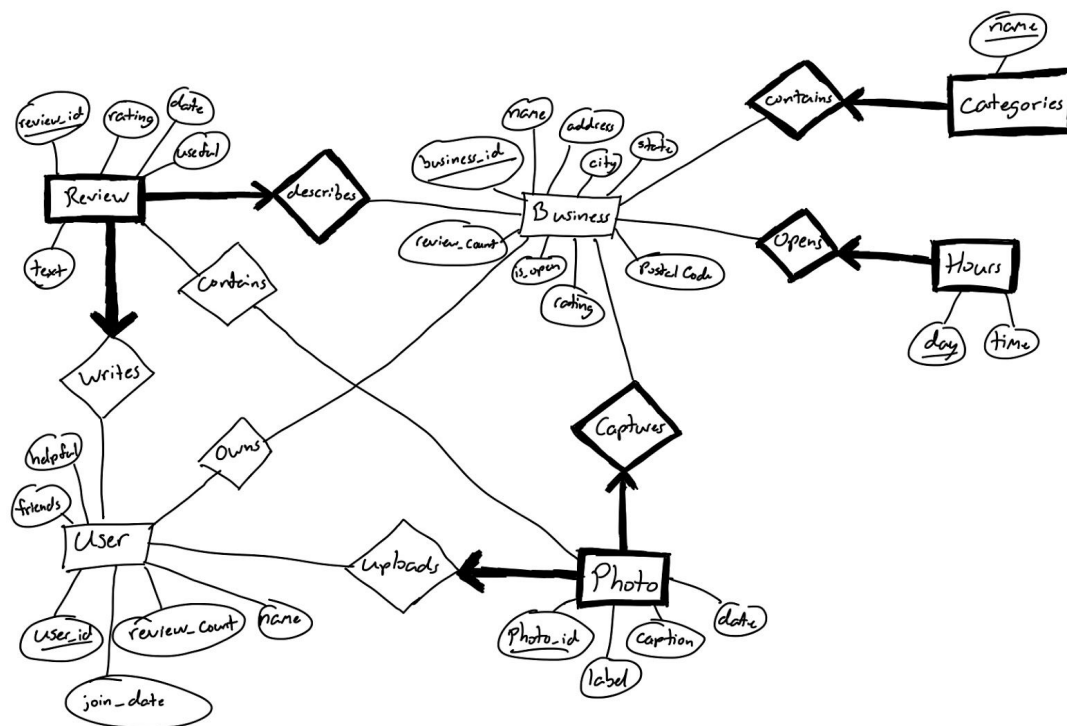
### Topic: Business search and review

Our database will serve a business search and review service. It will store a business's information, such as the owner, location, and times open. It will also store the information needed for the review aspect: users, reviews, and photos.

### Data usage and constraints:

- A business will have to be entered into the database before users can write reviews on it. A business can have many reviews. It can also be categorized
- Users are able to write many reviews for different businesses, but only one per business. A review can be updated after it is initially created. A user can upload multiple photos of a business, the business's products, services, or location. A user can be a business owner and request to have their business uploaded to the database. If a user is a business owner they have the ability to edit their business's information.
- A review must be written by a registered user and it must be about a business.
- Photos must be linked to a business and a user, and optionally, a review.
- Business, review, and photo uploads are managed by an administrator; the administrator approves them to prevent inappropriate content.

### ER Diagram:



## Relational Schemas:

- Business (business\_id: int, name: varchar, address: varchar, city: varchar, state: varchar, postal\_code: varchar, rating: tinyint, is\_open: tinyint, review\_count: int)
- Review (review\_id: int, text: text, rating: tinyint, useful: int, date: datetime)
- User (user\_id: int, friends: varchar, name: varchar, helpful: int, join\_date: datetime, review\_count: int)
- Photo (photo\_id: int, date: datetime, caption: varchar, label: varchar)
- Category (name: varchar)
- Hour (day: varchar, time: varchar)