EER to Relational Schema

Yelp User

Yelp User (User Id: Integer, Birthdate: Date, Birthplace: String, Email: String, First Name: String, Last Name: String, Gender: String, Profile Photo: String)

I have assumed that profile photo stores a link for the image.

Has1

Has1(User Id: Integer, Activity Wall ID: Integer), Foreign Key (User ID) references Yelp User, Foreign Key (Activity Wall ID) references Activity Wall

Activity Wall

Activity Wall (Activity Wall ID: Integer, Time: Time)

Here I have assumed that the activity wall has a primary key that is Activity Wall ID.

Here I have assumed activity wall has another attribute Time.

Recent Review

Recent Review (Activity Wall ID: Integer, Review Id: Integer, Friends ID: Integer, Publish Date: Date)

Foreign Key (Activity Wall ID) references Activity Wall, Foreign Key (Review ID) references Review,

Foreign Key (Friends ID) references List of Friends who followed.

Has2

Has2(Friends ID: Integer, User ID: Integer) Foreign Key (User ID) references Yelp User, Foreign Key (Friends ID) references List of Friends

List of Friends

List of Friends (Friends ID: Integer, Names: String)

Here I have assumed that List of Friends entity has a Friends ID and has another attribute Names.

List of Friends who followed

List of Friends who followed (Friends ID: Integer, Nature: String) Foreign Key (Friends ID) references List of Friends.

Here I have assumed that list of friends who followed entity has another attribute Nature.

List of Friends who complimented

List of Friends who complimented (Friends ID: Integer, Complement: String), Foreign Key (Friends ID) references List of Friends.

List of Friends who Liked

List of Friends who Liked (Friends ID: Integer, Emoji: String), Foreign Key (Friends ID) references List of Friends. Here I have assumed that another attribute emoji for List of friends who liked attribute.

Likes

Likes (Friends ID: Integer, Photo ID: Integer) Foreign Key (Friends ID) references List of Friends who Liked, Foreign Key (Photo ID) references Photo

Review

Review (Review Id: Integer, User ID: Integer, BID: Integer, Author: String, Number of Stars: Integer, Publish date: Date, Textual) Foreign Key (User Id) references Yelp User, Foreign Key (BID) references Business

Comment

Comment (Review ID: Integer, Comment Id: Integer, Author: String, Date: Date, Textual Content: String) Foreign Key (Review ID) references Review

Here I have assumed every comment has a comment Id. Other assumption is that the you can just add text as textual content for the comment on the review.

Textual Comment

Textual Comment (Textual comment Id: Integer, Review Id: Integer) Foreign Key (Review ID) references Review, here I have assumed that Textual comment has a textual comment id

Short Video

Short Video (Textual comment Id: Integer, Review ID: Integer, Short Video: String)) Foreign Key (Review ID) references Review,) Foreign Key (Textual Comment ID) references Textual Comment , Here I have assumed that it has attribute named short video which contains link of the short video

Text

Text (Textual comment Id: Integer, Review ID: Integer, Text: String)) Foreign Key (Review ID) references Review,) Foreign Key (Textual Comment ID) references Textual Comment, Here I have assumed that it has attribute named Text

Photo2

Photo2(Textual comment Id: Integer, Review ID: Integer, Photo: String)) Foreign Key (Review ID) references Review,) Foreign Key (Textual Comment ID) references Textual Comment, Here I have assumed that it has attribute named Photo which stores the link for the picture

Votes

Votes (Review ID: Integer, Vote Id: Integer) Foreign Key (Review ID) references Review, Here I have assumed votes has a vote id.

review

Useful

Useful (Review ID: Integer, Vote Id: Integer, Emoji: String), Foreign Key (Review ID) references Review, Foreign Key (Vote Id) references Votes.

I have assumed that Useful entity has attribute emoji.

Non Useful

Non Useful (Review ID: Integer, Vote Id: Integer, Gifs: String) Foreign Key (Review ID) references Review, Foreign Key (Vote Id) references Votes.

I have assumed that Non Useful entity has attribute Gifs.

List of Friends who voted useful

List of Friends who voted useful (Friends ID: Integer, Date: Date), Foreign Key (Friends ID) references List of Friends. Here I have assumed that another attribute Date for List of friends who voted useful attribute.

List of Friends who voted non useful

List of Friends who voted non useful (Friends ID: Integer, Time: Time), Foreign Key (Friends ID) references List of Friends. Here I have assumed that another attribute time for List of friends who voted non useful attribute.

Voted Useful

Voted Useful(Friends ID: Integer, Review ID: Integer, Vote Id: Integer,) Foreign Key (Review ID) references Review, Foreign Key (Vote Id) references Votes , Foreign Key (Friends ID) references List of Friends who voted useful

Voted NON Useful

Voted NON Useful(Friends ID: Integer, Review ID: Integer, Vote Id: Integer,) Foreign Key (Review ID) references Review, Foreign Key (Vote Id) references Votes , Foreign Key (Friends ID) references List of Friends who voted non useful

Rate

Rate (UID: Integer, BID: Integer, Scale: Integer) Foreign Key (UID) references Yelp User, Foreign Key (BID) references Business

Check In

Check In (Check ID: Integer, Check Info: String, UID: Integer, BID: Integer) Foreign Key (UID) references Yelp User, Foreign Key (BID) references Business. I have assumed that 1 check must belonged to one user and one check must belonged to one business. I have assumed that

Photo

Photo (Photo Id: Integer, Author: String, Description: String, Location: String)

Personal Photo

Personal Photo (Photo ID: Integer, Color Type: String) Foreign Key (Photo ID) references Photo

I have assumed that the personal phot has attribute color type. A personal photo can be black and white or colored.

Business Photo

Business Photo (Photo ID: Integer, BID: Integer, Texture: String) Foreign Key (Photo ID) references Photo, Foreign Key (BID) references Business

I have assumed that the business photo has attribute Texture type. I have assumed that one business photo must belonged to one business

Business

Business (BID: Integer, Street: String, State: String, Zip Code: Integer, Latitude: String, Longitude: String, Hours: Time, Days of Operation: String, Number of Stars: Integer)

Has (This table has Business id and business category id**)**

Business (BID: Integer, Category Id: Integer), Foreign Key (BID) references Business, Foreign Key (Category Id) references Business Category

Business Category

Business Category (Category ID: Integer, Category Name: String)

Food

Food (Category ID: Integer, Food Type: String) Foreign Key (Category ID) references business Category. Here I have assumed that it has an attribute Food type.

Beauty and Spa

Beauty and Spa (Category ID: Integer, Aroma: String) Foreign Key (Category ID) references business Category

Here I have assumed that it has an attribute Aroma type.

Subcategory

Subcategory (Subcategory ID: Integer, Category ID: Integer), Foreign Key (Category ID) references business Category

Visible

Visible (User id: Integer, Photo Id: Integer), Foreign Key(User Id) references Yelp User, Foreign Key(Photo Id) References Business Photo

Bakeries

Bakeries (Subcategory Id: Integer, Category ID: Integer, Flavors: String), Foreign Key (Subcategory ID) references Subcategory, Foreign Key (Category ID) references business Category

I have assumed bakeries has a attribute named Flavors

Fashion

Fashion (Subcategory Id: Integer, Category ID: Integer, Clothing style: String), Foreign Key (Subcategory ID) references Subcategory, Foreign Key (Category ID) references business Category

Here I have assumed that Fashion has attribute Clothing Style.

Other assumptions, I am just showing to subcategories of both the business category type