Recreating Yelp's Database: Yalp

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Dataset

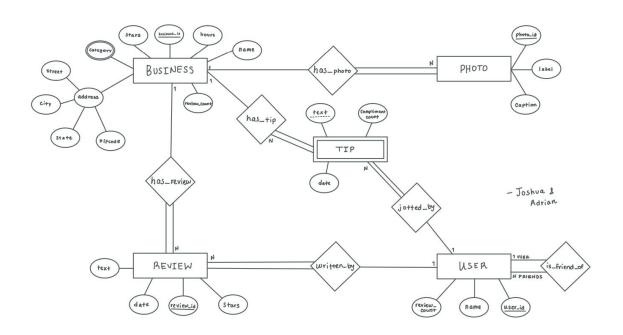
- We are using Yelp's public dataset, which contains data on businesses from 8 large cities across the globe - including reviews, tips, photos, relevant users, etc.
- Found at: https://www.yelp.com/dataset
- Stored in JSON (uploading is a pain)

Constraints

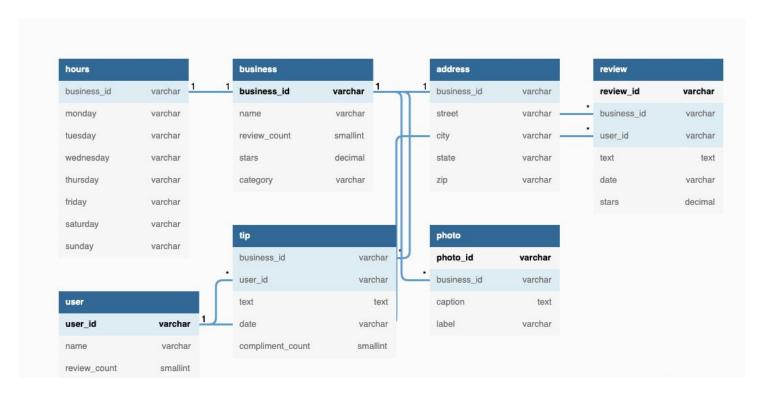
Lots and Lots of Foreign Keys

- Referential integrity
 - Reviews & Tips require Business & User
- Key/Uniqueness constraints
 - Each Business, User, Review, &
 Photo must have unique 22
 character ids

ER Diagram



Schema



Business and Review Tables

```
CREATE TABLE Business (
business_id varchar(22) not null,
name varchar(100) not null,
review_count smallint,
stars decimal (2,1),
category varchar(1000),
Primary key(business_id));
```

```
CREATE TABLE Review (
 review id varchar(22) not null,
 business id varchar(22) not null,
 user id varchar(22) not null,
 text text not null.
 date varchar(30),
 stars decimal (2,1),
 primary key(review id),
 foreign key(business id) references
Business(business id),
 foreign key(user id) references
User(user id)
```

Example Business Table

business_id	name	review_count	stars	category
6iYb2HFDywm 3zjuRg0shjw	Oskar Blues Taproom	86	4.0	Gastropubs, Food, Beer Gardens, Restaurants, Bars, American (Traditional), Beer Bar, Nightlife, Breweries
tCbdrRPZA0oil YSmHG3J0w	Flying Elephants at PDX	126	4.0	Salad, Soup, Sandwiches, Delis, Restaurants, Cafes, Vegetarian

Example Review Table

review_id	text	date	stars	business_id	user_id
IWC-xP3rd6o bsecCYsGZR g	Apparently Oskar Blues Taproom had a rough summer as evidenced by the almost emptymonth of October.	2014-10-11 03:34:02	4.0	6iYb2HFDyw m3zjuRg0shj w	q_QQ5kBBwl CcbL1s4NVK 3g
8bFej1QE5L Xp4O05qjGq XA	This store is pretty good 4 stars.	2015-07-03 20:38:25	4.0	tCbdrRPZA0o iIYSmHG3J0 w	dIIKEfOgo0K qUfGQvGikP g

Structure

Currently...

- Web API located on local server
- Frontend that interacts with local database

Future (Hopefully)...

- Web API located on remote server
- Frontend that queries remote database using Web API

Code and Demo Time