YelpReview

Yen

OUTLINE

- 1. What's Yelp?
- 2. Yelp dataset
- 3. Data modeling
- 4. Data process
- 5. APP demo & Data analysis
- 6. https://github.com/yennanliu/YelpReviews

What's Yelp: A crowd-sourced review forum

Yelp: Restaurants, Dentists, Bars, Beauty Salons, Doctors

https://www.yelp.com *

User Reviews and Recommendations of Best Restaurants, Shopping, Nightlife, Food, Entertainment, Things to Do, Services and More at **Yelp**.

Results from yelp.com



Write a Review

Your First Review Awaits. Review your favorite businesses and ...

Log In

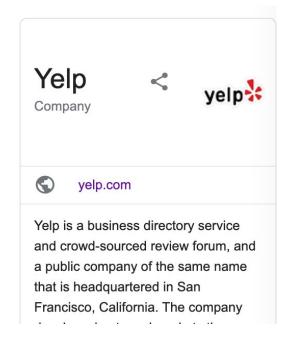
Log in to Yelp to write reviews, post photos, share ...

Yelp Blog

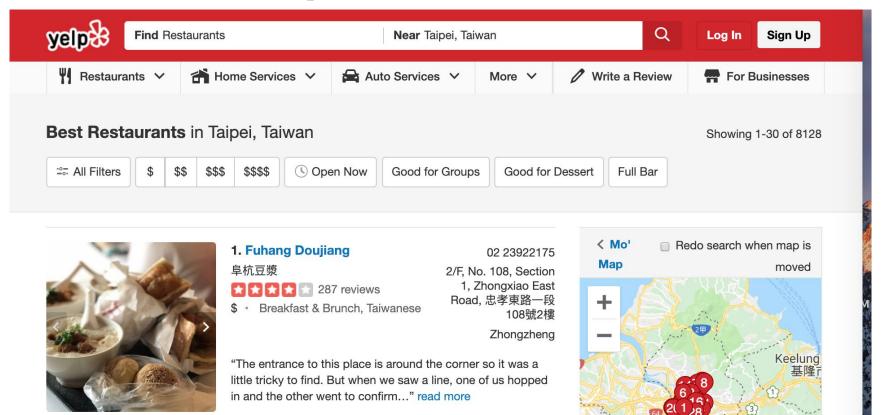
Businesses - Yelp Community -News - Product - Data - Careers

Sign Up

Log in to Yelp to write reviews, post photos, share ...



What's Yelp: Business (e.g. restaurants, bar..)



What's Yelp: User (profile, comment, friends)





Fairfax, VA

77 Friends 226 Reviews 6 678 Photos

Elite 2019 '18 '17 '16 What is Yelp Elite?

** Add friend Compliment Send message Follow Tay L. Similar Reviews

Tay's Profile

- Profile Overview
- Friends
- Reviews
- **Business Photos**
- Compliments
- Tips

Reviews

Sort by: Date ▼



INDY Sushi & Hot Pot

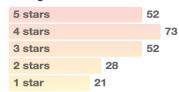
\$\$ • Japanese, Sushi Bars, Hot Pot 14215 Centreville Sa Centreville, VA 20121

- 7/29/2019
- 2 1 check-in

I am always wary of restaurants that offer and want to be everythingkind of like this place doing Thai, sushi, hot pot and whatever else they serve. I honestly hate myself for even wanting to try this place out. I haven't had such a bad restaurant experience in a while and this place was such a bust :o we went on a Saturday night, prime dinner time but

About Tay L.

Rating Distribution

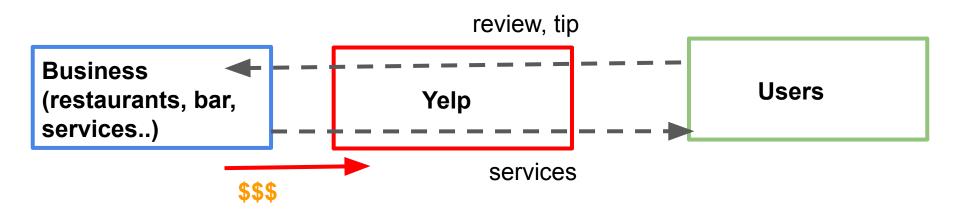


View more graphs

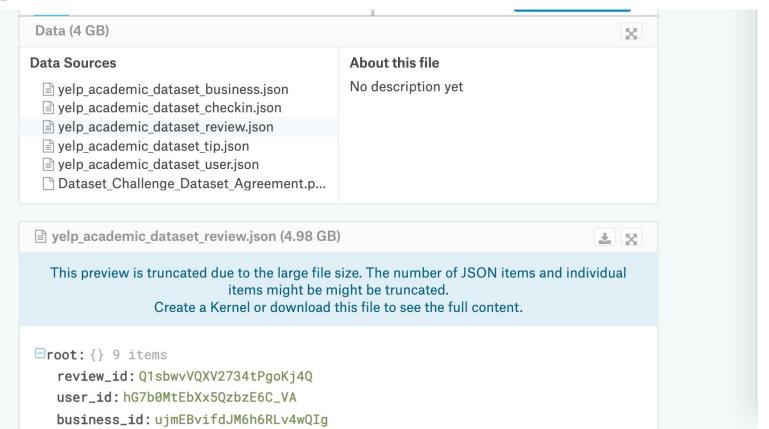
Review Votes

- Useful 256
- Funny 78
- Cool 83

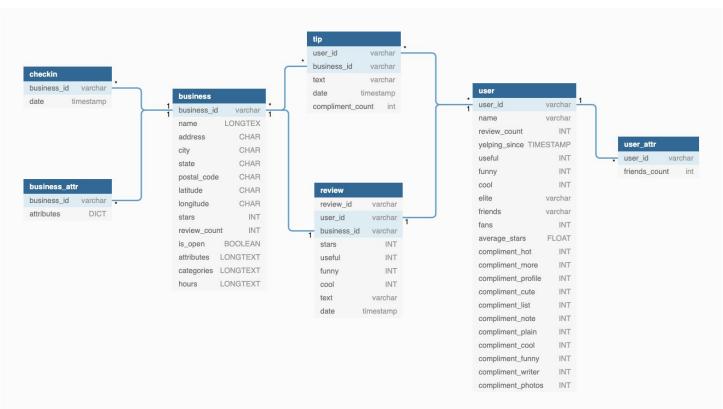
What's Yelp : Yelp model



Yelp Dataset



Data Modeling: snowflake pattern





Data Modeling

- 1. "SNOWFLAKE" pattern
- Review table as "fact" table at center, connected with other tables (as "dimension" table)
 - a. review
 - b. user, business, tip, checkin
- 3. Attribution table (via ETL) connected to dimension table
 - a. business_attr
 - b. user attr

Data Process

- 2. JSON -> csv -> mysql
 - a. Flatten JSON to csv
 - b. Fix/Clean csv make it OK for analysis
 - c. Insert cleaned data to mysql (AWS RDS)

Data Process - ETL

- 2. JSON -> attr csv -> mysql
 - a. Transform data form make it easy to access via Spark SQL
 - b. Doing aggregation/statistics on complex nest json via Spark
 - c. Insert attribution data to mysql
 - d. Run spark task via Docker

App Demo & Ananlysis

- 1. How is the core health of Yelp as a reivew platform
- 2. What're the high reviewed businss
- 3. Who're the active user that engaged to the plaform a lot
- 4. How to profit from the platform

App Demo & Ananlysis

https://app.redash.io/yen_dev/public/dashboards/xpfG9wK gb9qEcMHIGiSpjhFn8dCZuun8XbCN52GN