GOOD FOODIES

Restaurant Review Application

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Value Proposition

Good Food is a restaurant review site that provides the user with the ability to review, search, and recommend restaurants for adventurous eaters who are unhappy with not knowing where to eat.

Plan to deliver in the semester

Allow users to find restaurants of their choice based on predefined criteria like location, cuisine type, rating, etc. Users will be able to write reviews about restaurants, and make recommendations to other Users. Users will also be able to access the reviews for an individual restaurant, and see restaurants that have been recommended to them.

Future enhancements

1. Review, search, and recommend companies other than restaurants.

2. Review, search, and recommend products.

3. User can make reservations online.

4. User can add photos in the review.

Data Sources and plan for extraction

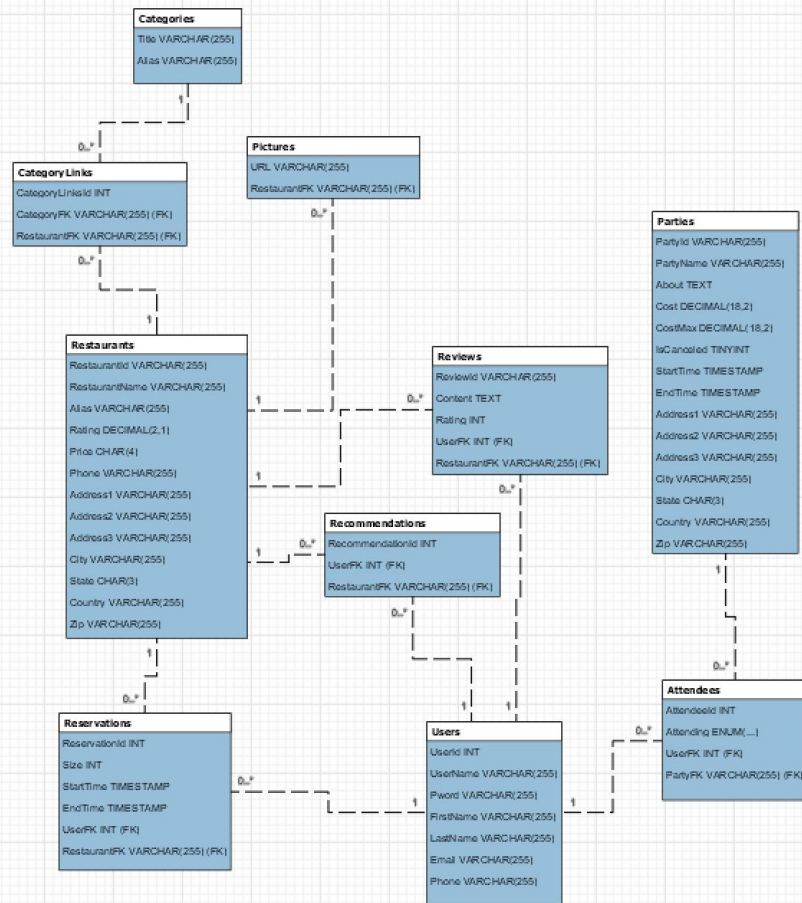https://www.yelp.com/developers/documentation/v3

We used Yelp API for extracting restaurants data on the basis of location.

We loaded around 100k+ restaurant data and reviews.

The original data in the form of JSON, we converted the JSON data into SQL data and generate our database.

UML DIAGRAM

Categories
Title VARCHAR(255)
Alias VARCHAR(255)

Pictures
URL VARCHAR(255)
RestaurantFK VARCHAR(255) (FK)

Category Links
CategoryLinkId INT
CategoryFK VARCHAR(255) (FK)
RestaurantFK VARCHAR(255) (FK)

Parties
PartyId VARCHAR(255)
PartyName VARCHAR(255)
About TEXT
Cost DECIMAL(18,2)
CostMax DECIMAL(18,2)
IsCanceled TINYINT
StartTime TIMESTAMP
EndTime TIMESTAMP
Address1 VARCHAR(255)
Address2 VARCHAR(255)
Address3 VARCHAR(255)
City VARCHAR(255)
State CHAR(3)
Country VARCHAR(255)
Zip VARCHAR(255)

Restaurants
RestaurantId VARCHAR(255)
RestaurantName VARCHAR(255)
Alias VARCHAR(255)
Rating DECIMAL(2,1)
Price CHAR(4)
Phone VARCHAR(255)
Address1 VARCHAR(255)
Address2 VARCHAR(255)
Address3 VARCHAR(255)
City VARCHAR(255)
State CHAR(3)
Country VARCHAR(255)
Zip VARCHAR(255)

Reviews
ReviewId VARCHAR(255)
Content TEXT
Rating INT
UserFK INT (FK)
RestaurantFK VARCHAR(255) (FK)

Recommendations
RecommendationId INT
UserFK INT (FK)
RestaurantFK VARCHAR(255) (FK)

Attendees
AttendeeId INT
Attending ENUM(...)
UserFK INT (FK)
PartyFK VARCHAR(255) (FK)

Reservations
ReservationId INT
Size INT
StartTime TIMESTAMP
EndTime TIMESTAMP
UserFK INT (FK)
RestaurantFK VARCHAR(255) (FK)

Users
UserId INT
UserName VARCHAR(255)
Pword VARCHAR(255)
FirstName VARCHAR(255)
LastName VARCHAR(255)
Email VARCHAR(255)
Phone VARCHAR(255)

Business Insights

1. Restaurants with specific words Ex: cafe

RestaurantName	Price	city
Istanbul Cafe		New Orleans
Barrio Cafe	$$	Wahiawa
DC Cafe	$	Washington DC
Cafe Rio Mexican Grill	$	Glendale
14th St Cafe Asian Bistro	$$	Washington DC
Baby Birds Cafe	$$	Las Vegas
Parish Cafe and Bar	$$	Boston
3 Arts Club Cafe	$$	Chicago
Footprints Cafe	$$	Brooklyn
Toast Society Cafe	$$	Las Vegas

2. Identifying price values for restaurants containing word cafe.

RestaurantName	PriceFactor
Istanbul Cafe	None
Barrio Cafe	Medium
DC Cafe	Low
Cafe Rio Mexican Grill	Low
14th St Cafe Asian Bistro	Medium
Baby Birds Cafe	Medium
Parish Cafe and Bar	Medium
3 Arts Club Cafe	Medium
Footprints Cafe	Medium
Toast Society Cafe	Medium

3.Highly recommended Restaurants in each city.

RestaurantName	city	recommend_votes
Saltie Girl	Boston	2
anoush'ella	Boston	1
Dirty Water Dough	Boston	1
Wheelhouse	Boston	1
Pink Taco	Boston	1
Banh Mi Ba Le	Dorchester	1
Good Bite	Boston	1
El Peñol	Boston	1
CAVA	Cambridge	1
Spyce	Boston	1

4. Users who gave rating 5 but does not recommend any restaurant

UserFK	RestaurantName
50039	Chinatown Cafe
50040	Good Bite
50042	anoush'ella
50042	Shawarma Falafel
50044	anoush'ella
50046	Shawarma Falafel
50047	Regina Pizzeria
50047	Regina Pizzeria
50048	Boston Burger - Boston
50049	Chinatown Cafe
50052	anoush'ella
50053	Pink Taco
50056	CAVA
50057	Regina Pizzeria

JDBC & JSP

Created all 4 crud operations for 3 tables...
Users
Reviews
Recommendations

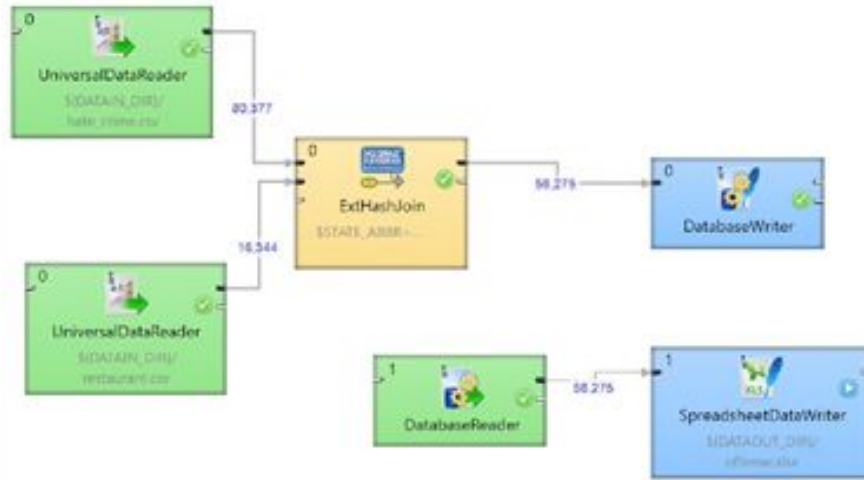# Demonstration for users....
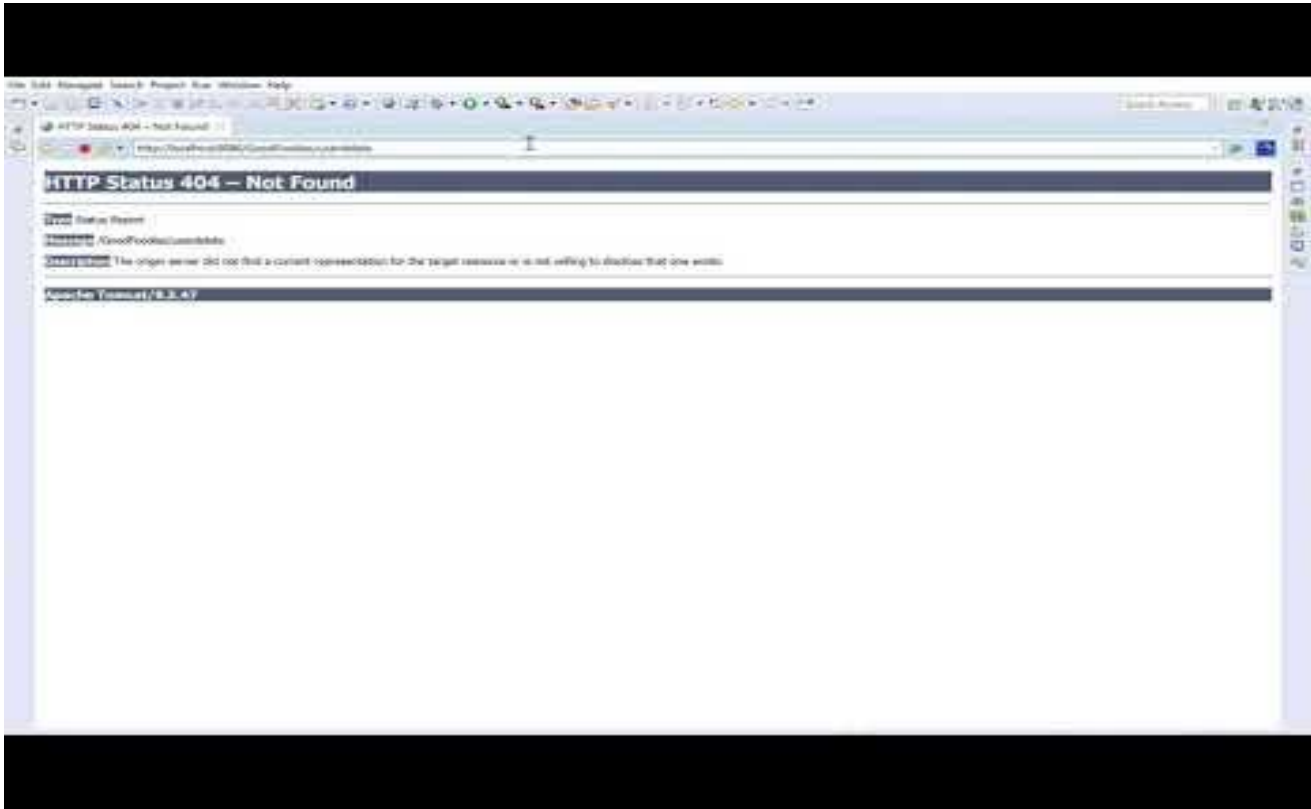
Data Warehousing

Do Hate Crimes in US states have an impact on Restaurant ratings?

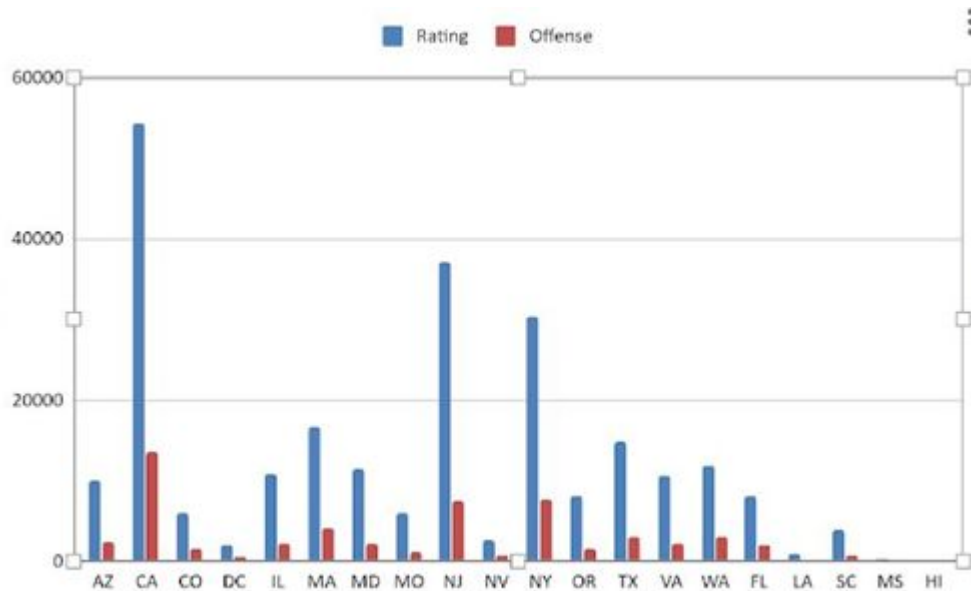Hate crimes across United states recorded state wise in a particular time frame

External Data Sources:

Rating And Offense By State

Rating and offense based on state

Thank you