

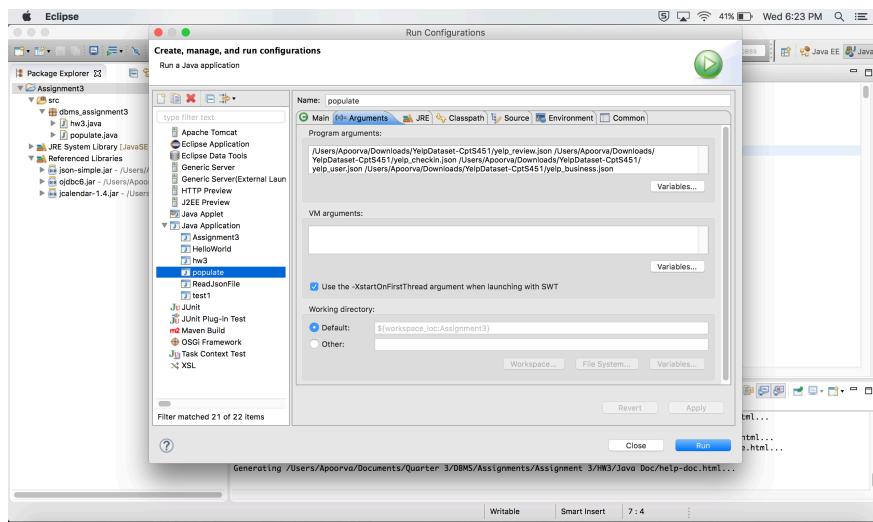
```
*****
*
* Name:          Apoorva Patil
* SCU ID:        W1188522
* Course:        COEN 280: Database Systems
* Assignment:    Assignment 3
* Java IDE:      Eclipse Mars/ Netbeans 8.1
*
*****
```

## Synopsis

A JAVA program with DBMS concepts to develop a data analysis application for Yelp.com's business review data.

## Java Programs

- populate.java:** This program gets the path of the input files as command line parameters and populates them into oracle 11g database.  
It is executed with the below arguments in the command line: Ex: "java populate.java filepath/yelp\_business.json,filepath/yelp\_review.json,filepath/yelp\_checkin.json,filepath/yelp\_user.json".



- hw3.java:** This program provides a GUI for the yelp application, to query the yelp simulated database.

The GUI includes:

For business section,  
List of main business categories.

List of sub-categories associated with the selected main categories.  
Review sections along with selectable attributes for business selection  
For Users section,  
List of selectable attributes  
List of results  
List of the reviews provided for a specific business/User.

## The yelp.com simulated GUI

GUI consists of

1. Business and User panels.
2. Result panel to display results
3. Review panel to display review for a particular user or a business.

## Motivation

A DBMS program for the assignment 3 of the coursework COEN 280: Database Systems

## Run

Import the jar/.zip file (consists of populate.java and hw3.java) into Eclipse workspace to run the program.

## Steps

1. Populate.java should be run first to populate the database with the required tables having yelp.com data  
Populate. Java takes around 12 minutes to populate the data in YELP\_USER, REVIEWS, BUSINESS, BUSINESS\_CATEGORY and BUSINESSATTRIBUTES table.

Starts at 5:20

```

public static void main(String[] args)
{
    JSONParser parser = new JSONParser();
    BufferedReader br = null;
    // Insert into YELP_USER
    System.out.println("Inserting data into YELP_USER");
    PopulateYelpUser(br,parser, args[2]);
    System.out.println("User Entries added");
    // Insert into BUSINESS
    System.out.println("Inserting data into BUSINESS");
    PopulateBusiness(br,parser, args[3]);
    System.out.println("Business entries added");
    // Insert into BUSINESS_CATEGORY
    System.out.println("Inserting data into BUSINESS_CATEGORY");
    PopulateBusinessCategory(br,parser, args[3]);
    System.out.println("Business Categories entries added");
    // Insert into BUSINESS_ATTRIBUTES
    System.out.println("Inserting data into BUSINESS_ATTRIBUTES");
    PopulateBusinessAttributes(br,parser, args[3]);
    System.out.println("Attributes Entries added");
    // Insert into REVIEWS
    System.out.println("Inserting data into REVIEWS");
}

```

Ends at 5:32

```

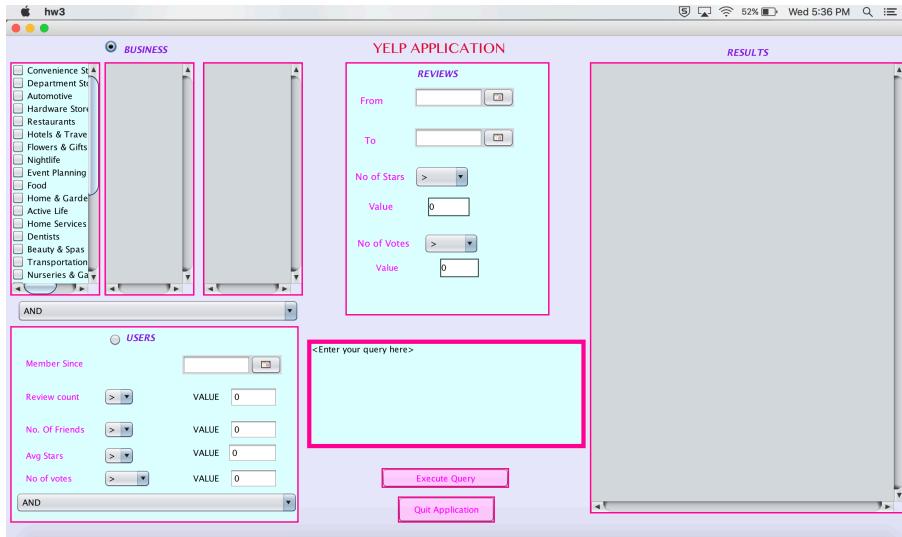
Inserting data into YELP_USER
User Entries added
Inserting data into BUSINESS
Business entries added
Inserting data into BUSINESS_CATEGORY
Business Categories entries added
Inserting data into BUSINESS_ATTRIBUTES
Attributes Entries added
Inserting data into REVIEWS
Review data entries added

```

## 2. Run the GUI

hw3.java provides an easy interface to query yelp.com simulated database.

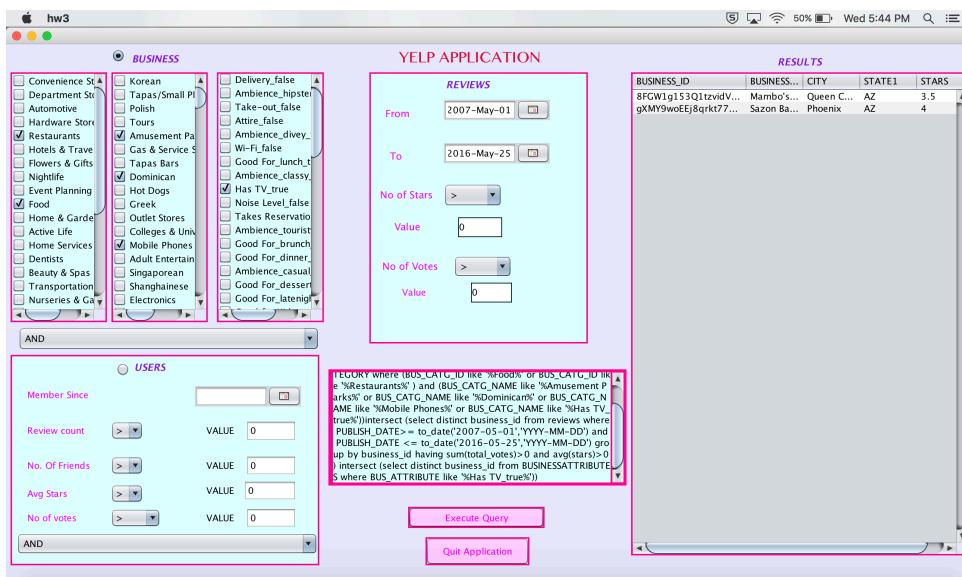
Step 1: Front page of the GUI



Step 2: Select business categories which are populated. This will populate corresponding business sub categories and once these are checked, attributes are populated. Select values for reviews and select AND or OR, then click 'Execute Query'.

It generates set of results in the right hand side of the window as shown below.

Businesses result using AND condition.



Once you click on the business id, a frame with reviews for that business id shows up.

Finder File Edit View Go Window Help

**BUSINESS**

- Convenience St
- Department St
- Automotive
- Hardware Stores
- Restaurants
- Hotels & Travel
- Flowers & Gifts
- Nightlife
- Event Planning
- Food
- Home & Garden
- Active Life
- Home Services
- Dentists
- Beauty & Spas
- Transportation
- Nurseries & Gardens

**YELP APPLICATION**

**REVIEWS**

From: 2007-May-01 To: 2016-May-25

No of Stars: > Value: 0

No of Votes: > Value: 0

**RESULTS**

BUSINESS_ID	BUSINESS...	CITY	STATE1	STARS
8FGCW1q15301trvD...	Mambo's...	Queen C...	AZ	3.5
MY9woEej8qrk77UyMkQ...	Sazon Ba...	Phoenix	AZ	4

AND

**USERS**

Member Since: VALUE: 0

Review count: > Value: 0

No. Of Friends: > Value: 0

Avg Stars: > Value: 0

No of votes: > Value: 0

Execute Query

QUIT Application

Finder File Edit View Go Window Help

User: Julio  
Reviews: I love all types of food from all over the world! I moved to Arizona in 2009. I've traveled all over the world & I am very opened minded to different cultures.

Caribbean food is my absolute favorite, I love Cuban, Dominican, Puerto Rican, & Jamaican food. They all have there own unique 'SAZON' meaning Seasoning! Which they all take a very special pride in, in other words gran telen & who cooks better than mom! NOBODY LOL

I HAD THE POLLO GUIASO with ARROZ BLANCO/Chicken stew over white rice...AMAZING IF I MAY ADD, my sides included fresh Avocado slices! Platano Maduros that complimented the meal very nicely. 2 drink, I had the m

For the earlier reviewers I enjoyed the 16 year old young server who helped my party, just like most Latino family's showing there young daughter what hard work is all about!

It's small...it's perfect, it's friendly, clean and mostly excellent food.. Folks who go to Bachata must appreciate the environment is driven with a sense of warmth and familial appreciation.. Don't expect a 'Chain food' environment.. You can expect quality food and genuine friendly down to earth service.. My family and I will continue to eat their

By the way, YOU HAVE TO TRY their Sancocho and Carne Guizada.. Awesome place..

User: Maria  
Reviews: no very impressive

User: Claudia  
Reviews: Estamos esperando el gran opening, será el 3/15/14 Te esperamos. Pon la fecha en tu agenda

User: Ric  
Reviews: Never ate Dominican food before but this was very good! Cooked perfectly. Had pepper beef and rice and a bowl of beans .. I also got a complimentary simple fresh salad and free glass of the best pink lemonade I ever drank. I will be back!

User: Taji  
Reviews: Food is incredible!! Pollo guiso moro & plantano s is a must have!! Will definitely be coming back.

User: Bruce  
Reviews: WOW, this is the best Caribbean/Latin restaurant of any kind I have experienced in AZ. Honestly its better than the Dominican spots in NYC.

I had the Pollo Guisoado. Chicken was cooked and seasoned perfectly, and the sauce added great flavor to the rice that was already perfect on its own. The platanos maduros were some of the best I have ever had. The food here is made with pride and attention to detail, everything I tasted was AUTHENTIC.

Don't forget to try the Morir soñando, a delicious milky citrusy drink that by itself is enough reason to return to Sazon Bachata.

User: Rafael  
Reviews: Food may be good. But you have to pay attention to service. If you have a teenager taking orders that has her headphones on at the same time she is taking orders she is bound to make a mistake. Service is as fast as come one that it there in your standard

## Similarly, for OR

Finder File Edit View Go Window Help

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- Event Planning
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- Home & Garden
- Active Life
- Home Services
- Dentists
- Beauty & Spas
- Transportation
- Nurseries & Gardens

**YELP APPLICATION**

**REVIEWS**

From: 2007-May-01 To: 2016-May-25

No of Stars: > Value: 0

No of Votes: > Value: 0

**RESULTS**

BUSINESS_ID	BUSINESS...	CITY	STATE1	STARS
B1Bxw0d777FSPh...	Walmart	Mesa	AZ	2.5
4V5Vs11d8L9gpt...	Walmart	Gilbert	AZ	2.5
4V5Vs11d8L9gpt...	Walmart	Queen C...	AZ	3
4V5Vs11d8L9gpt...	Walmart	Phoenix	AZ	3.5
Gxk0v+u8B9QnQDo...	Walmart	Las Vegas	NV	3
gMrhXz9y7jFjP...	Walmart	Phoenix	AZ	4
gMrhXz9y7jFjP...	Walmart	Glendale	AZ	2.5
gMrhXz9y7jFjP...	Walmart	Scottsdale	AZ	3.5
gMrhXz9y7jFjP...	Walmart	Mesa	AZ	3
vWbAqPjHsDyvph...	Walmart	Phoenix	AZ	4
h0Df3fDfNv.../...	Walmart	Phoenix	AZ	2.5
h0Df3fDfNv.../...	Walmart	Glendale	AZ	2.5
h0Df3fDfNv.../...	Walmart	Scottsdale	AZ	3
h0Df3fDfNv.../...	Walmart	Mesa	AZ	3
vWbAqPjHsDyvph...	Walmart	Las Vegas	NV	2.5
vWbAqPjHsDyvph...	Walmart	Las Vegas	NV	2.5
vWbAqPjHsDyvph...	Walmart	Phoenix	AZ	2.5
vWbAqPjHsDyvph...	Walmart	Glendale	AZ	2.5
vWbAqPjHsDyvph...	Walmart	Scottsdale	AZ	3
vWbAqPjHsDyvph...	Walmart	Mesa	AZ	2
7wCqPsdWkdKd...	Walmart	Pearl	AZ	2.5
7wCqPsdWkdKd...	Walmart	Phoenix	AZ	2.5
7wCqPsdWkdKd...	Walmart	Glendale	AZ	2.5
7wCqPsdWkdKd...	Walmart	Scottsdale	AZ	3
7wCqPsdWkdKd...	Walmart	Mesa	AZ	2
BRkL+eOpQaMell...	Walmart	Mesa	AZ	2
DRzIwL...YtPHNhy...	Walmart	North La...	NV	1.5
DRzIwL...YtPHNhy...	Walmart	Las Vegas	NV	1.5
DRzIwL...YtPHNhy...	Walmart	Phoenix	AZ	2
DRzIwL...YtPHNhy...	Walmart	Glendale	AZ	2.5
DRzIwL...YtPHNhy...	Walmart	Scottsdale	AZ	2.5
DRzIwL...YtPHNhy...	Walmart	Mesa	AZ	2
DRzIwL...YtPHNhy...	Walmart	Phoenix	AZ	2.5
DRzIwL...YtPHNhy...	Walmart	Glendale	AZ	2.5
DRzIwL...YtPHNhy...	Walmart	Scottsdale	AZ	2.5
DRzIwL...YtPHNhy...	Walmart	Mesa	AZ	2
Fz24APP9...yuMhe...	Walmart	Goodyear	AZ	3
Fz24APP9...yuMhe...	Walmart	Phoenix	AZ	2.5
Fz24APP9...yuMhe...	Walmart	Glendale	AZ	2.5
Fz24APP9...yuMhe...	Walmart	Scottsdale	AZ	3
Fz24APP9...yuMhe...	Walmart	Mesa	AZ	2
Gd8K9vWpRyK...	Walmart	Phoenix	AZ	2.5
Gd8K9vWpRyK...	Walmart	Glendale	AZ	2.5
Gd8K9vWpRyK...	Walmart	Scottsdale	AZ	3
Gd8K9vWpRyK...	Walmart	Mesa	AZ	2
Kapthjk8jQkjD...	Walmart	Phoenix	AZ	2
Kapthjk8jQkjD...	Walmart	Glendale	AZ	2.5
Kapthjk8jQkjD...	Walmart	Scottsdale	AZ	2.5
Kapthjk8jQkjD...	Walmart	Mesa	AZ	2
Pr7D9yBdQm...	Walmart	Phoenix	AZ	2.5
Pr7D9yBdQm...	Walmart	Glendale	AZ	2.5
Pr7D9yBdQm...	Walmart	Scottsdale	AZ	2.5
Pr7D9yBdQm...	Walmart	Mesa	AZ	2
WkP8JW...	Walmart	Phoenix	AZ	2.5
WkP8JW...	Walmart	Glendale	AZ	2.5
WkP8JW...	Walmart	Scottsdale	AZ	2.5
WkP8JW...	Walmart	Mesa	AZ	2
XYXKNewJ14uT...	Walmart	Mesa	AZ	2
XYXKNewJ14uT...	Walmart	Phoenix	AZ	2
XYXKNewJ14uT...	Walmart	Glendale	AZ	2.5
XYXKNewJ14uT...	Walmart	Scottsdale	AZ	2.5
Y92Dmms15C...	Walmart	Gilbert	AZ	2.5

AND

**USERS**

Member Since: VALUE: 0

Review count: > Value: 0

No. Of Friends: > Value: 0

Avg Stars: > Value: 0

No of votes: > Value: 0

Execute Query

QUIT Application

User: Rita  
 Reviews: Hey it takes some real guts to open up a Restaurant in this current economy, so first off we want to give them a big cheer! We were so happy to have a new place to try and equally happy with the food. They have been very thrilled. The Cuban sandwich was a huge hit and the pickles inside are scrumptious, giving it that perfect snap. The others had pork platters with yellow rice, they licked their plates clean so that was a good indicator we look forward to dining here again!

User: Dee  
 Reviews: I've had a better cuban sandwich at Village Inn. Still trying to figure out what part of the chicken the "Dominican Chicken" is???? and my salad came after my entree. Not impressed ....

User: Bob  
 Reviews: Ok, so again, I wish you could give a half star. This is a solid 3 1/2, but not quite a 4. Service was very friendly, place is dumpy the way I like it, gyro was very good, tasted excellent. Fries were frozen crap from a bag.

I am a huge lover of Greek style pizza which is impossible to find in this neck of the woods so I am looking forward to giving this a try.

User: Bob  
 Reviews: I tried the pizza last night and was happy I did, I ordered the medium, which is the smallest you can get, with 3 toppings and it came in at under \$13. The box was very heavy when I picked it up and it survived the 10 min drive home without getting soggy. Plenty of toppings, thick crust, and lots cheese. Much better than anything you can get from any of the crap chain pizza joints. I hope this place does well.

User: Scott  
 Reviews: So I have been meaning to stop by and try JJs pizza. Well JJs is gone but you can still get their pizza here. I however chose a 2 tostada meal. I had one pork and one chicken. Both were very good but the pork was my favorite of the 2. I also ordered a small soup and a juice. All I had was very good. I will be back.

User: Sharon  
 Reviews: Just went with my family for the first time today! It was AMAZING!! Everybody ordered something different and shared and we did not eat one thing that we didn't like. What a great variety to choose from. Thank you Eddy for the amazing food and the incredible customer service. This will be our new Go To place to eat!!

User: Sharon  
 Reviews: I love this restaurant! The food is delicious and the service is amazing...They always treat us like family. What a great selection of food to keep you coming back with out getting bored of eating the same old thing. This is definitely our new go to place to eat!

User: Maria  
 Reviews: Great place and great food!

User: Susan  
 Reviews: This was my first experience with Dominican food and I was excited to try it, especially having a new and culturally diverse restaurant out here in Queen Creek.

For the record, we ordered takeout. Maybe if we ate in the restaurant things would have gone better. One big plus for Mambo's--they poked holes in the Styrofoam containers containing items that should remain crispy:

What we ordered: Mambo Platter (large)  
 Cuban Sandwich  
 Ham and Cheese Empanada  
 Seasoned Ground Beef Empanada

The large Mambo platter is HUGE and way too much for two people. Since my husband did the ordering and pick up, I know he thought he'd want leftovers if the food was good. Too bad that wasn't the case with the Mambo platter. The large platter cost us a whopping \$22.00. Way too much for the quality we received even though it was a huge portion.

### Step 3: Check the radio button 'USER' to get results with respect to the users.

Select values for users and select AND or OR. Then click on 'Execute Query' to get the results. Results are shown in the results pane. Once clicked on user id which is populated in the result pane, reviews given by that user gets popped up in a text frame.

**BUSINESS**

- Convenience St
- Department St
- Automotive
- Hardware Store
- Restaurants
- Hotels & Travels
- Flowers & Gifts
- Nightlife
- Event Planning
- Food
- Home & Garden
- Active Life
- Home Services
- Dentists
- Beauty & Spas
- Transportation
- Nurseries & Gardens

**YELP APPLICATION**

**REVIEWS**

From: 2007-May-01 [ ]

To: 2016-May-25 [ ]

No of Stars: > [ ] Value: 4

No of Votes: > [ ] Value: 2

**RESULTS**

FIRST_NAME	YELPING_SINCE	AVERAGE...	TOTAL_V...	YE
Elvin	01-NOV-12	4	12	-2▲
Seth	01-NOV-12	4	4	-3▲
Corey	01-JAN-14	4	8	-3▲
Christine	01-MAR-11	4	19	-C
John	01-JUN-11	4	33	-V
Tom	01-JUL-11	4	13	-V
Josh	01-NOV-10	4	23	-X
Jessica	01-JAN-13	4	19	-b
Edwin	01-SEP-10	4	4	-d
Nathan	01-DEC-11	4	19	-d
James	01-OCT-11	4	5	-n
Melody	01-NOV-10	4	82	-o
Catherine	01-SEP-11	4	6	08
Becca	01-OCT-10	4	487	0E
Ashley	01-AUG-12	4	44	0N
Ian	01-NOV-11	4	4	0Z
lu jo	01-MAY-11	4	35	0e
Beth	01-JUN-12	4	19	0H
Kevin	01-AUG-11	4	8	14
Stas	01-JAN-11	4	23	1C
Steve	01-NOV-11	4	24	1P
Joanna	01-JAN-11	4	20	1C
Derek	01-MAY-10	4	26	1_
Dawn	01-MAR-11	4	3	1P
Bill	01-NOV-11	4	1269	1d
Michael	01-JAN-12	4	14	1v
rae	01-FEB-11	4	11	1x
Gary	01-SEP-11	4	8	24
Jessie	01-SEP-10	4	34	26
LeRoy	01-FEB-11	4	5	2H
Maria	01-OCT-11	4	7	3a
Derek	01-APR-11	4	10	3d
Melissa	01-DEC-11	4	73	4C
Billy	01-JUN-12	4	20	4J
Heather	01-AUG-11	4	92	4C
Diana	01-SEP-12	4	4	-C
Tera	01-FEB-12	4	7	-T

select first\_name,yelping\_since,average\_stars,total\_votes,yelp\_id,friend\_list from yelp\_user where yelp\_id in(select yelp\_id from yelp\_review where average\_stars>4 AND review\_count>2 AND total\_votes>2) INTERSECT (select yelp\_id from yelp\_review where average\_stars>4 AND review\_count>2 AND total\_votes>2) AND review\_count>2 AND yelping\_since>='2010-05-01'::YYYY-MM-DD)

Execute Query

Quit Application

hw3

**BUSINESS**

- Convenience St
- Department St
- Automotive
- Hardware Store
- Restaurants**
- Hotels & Travel
- Flowers & Gifts
- Nightlife
- Event Planning
- Food**
- Home & Garden
- Active Life
- Home Services
- Dentists
- Beauty & Spas
- Transportation
- Nurseries & Gardening

**YELP APPLICATION**

**REVIEWS**

From: 2007-May-01 To: 2016-May-25

No of Stars: > Value: 4

No of Votes: > Value: 2

**RESULTS**

FIRST_NAME	YELPING_SINCE	AVG_STARS	TOTAL_VOTES	YELP_ID
Elvin	01-NOV-10	4	12	-2N4Cr...
Seth	01-NOV-12	4	4	-3EHUe...
Corey	01-JAN-14	4	8	-3Nmz...
Christine	01-MAR-11	4	19	-GrRpw...
John	01-JUN-11	4	33	-VMZBR...
Tom	01-JUL-11	4	13	-WVf...
<b>Josh</b>	01-NOV-10	4	23	-X75...
Jessica	01-MAY-13	4	19	-b5Z0H...
Edwin	01-SEP-10	4	4	-eAnW0...
Nathan	01-DEC-11	4	19	-iE01KE...
James	01-OCT-11	4	5	-mf0zT...
Melody	01-NOV-10	4	82	-owYs...
Catherine	01-SEP-11	4	6	-082K...
Becca	01-OCT-10	4	487	-DNNM...
Ashley	01-AUG-12	4	44	-0NN6R...
Ian	01-SEP-10	4	4	-02y9S...
jo jo	01-MAY-11	4	35	-0eUkVr...
Beth	01-JUN-12	4	19	-0h7yq...
Kevin	01-AUG-11	4	8	-143XVE...
Stas	01-JAN-11	4	23	-1C9xTaf...
Steve	01-NOV-11	4	24	-1Pm5ay...
Jordan	01-JAN-12	4	20	-1Q89...
Derek	01-MAY-10	4	26	-1z7j81...
Dawn	01-MAR-11	4	3	-1n5zIyc...
Nali	01-JUL-10	4	1269	-1qEWNa...
Michael	01-JAN-12	4	14	-1wGWp...
rae	01-FEB-11	4	11	-1xGLP...
Gary	01-SEP-11	4	8	-240ooy7...
Jessie	01-SEP-11	4	34	-2614...
Lafay	01-FEB-11	4	5	-3huu90...
Maria	01-OCT-11	4	7	-3av0vC...
Derek	01-APR-11	4	10	-3mk59r...
Melissa	01-DEC-11	4	73	-4Coaprv...
Betty	01-JAN-12	4	20	-4jZeY-v...
Heather	01-AUG-11	4	92	-D-nlGW...
Diana	01-SEP-12	4	4	-Qw5i5...
Tera	01-FEB-12	4	7	-Tfk6O...

hw3

TextFrame

User: Josh  
Reviews: I had the Tomato Basil Soup, and the Santa Fe Panini, and it was delicious. Even better than the food was the awesome service.

User: Josh  
Reviews: Cafe Rio has quickly become my favorite place to eat out. The food is great, and the atmosphere is great for families, couples, or groups! Plus, they have Apple Beer!

User: Josh  
Reviews: Lately I have been trying hard to get my kids out and try new places, sometimes that goes over well, other times it doesn't. Tonight, it went over very well.

Don't get me wrong, there is much that others might criticize about the place, but I think that most of that could actually be some of the place's unique strengths. I found Frijoles to be refreshingly unapologetic.

1. The location: Opening a new place in Vegas can be a gamble, especially a place away from the strip and tourism. In this case, that is a good thing. This place isn't for the tourists (although they are missing out if they do).
2. The menu: There are some unique options on the menu, such as tongue and "cabeza." The meat options on the menu also are in Spanish only, and the cashier had to translate them for my kids. Again, this did not bother me.
3. The setup: This is an easy one to pick apart, as the line and ordering are different than most are used to (and by most, I mean the Qdoba/Chipotle/Cafe Rio lovers). This is one thing that I would not say is a strength, but I know the menu for any repeat visits.
4. Fast food?: This is the one critique that I will make on which I would like to see some improvement. The food did come out to us piecemeal and it did take some time. One child's nachos came first, followed by another's.

User: Josh  
Reviews: I am updating my review a little to make notes of a few improvements, my original review remains below.

I already loved this place, and it remains a new family favorite, and it seems to be spreading around my extended family like a virus, as we bring more family back each time.

First, this place is worth the trip just for the delicious drinks that they serve. My wife loves the "Chia water" and I can't get enough of the pineapple drink. We find ourselves wanting to go back frequently just for the drinks.

Second, here are the improvements they have made since the last time we ate there: the food now comes out much more quickly, and you no longer need to get up multiple times to get food for your table, because they are serving it to you.

Lately I have been trying hard to get my kids out and try new places, sometimes that goes over well, other times it doesn't. Tonight, it went over very well.

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Similarly, for OR

hw3

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- Convenience St
  - Department St
    - Automotive
    - Hardware Store
    - Restaurants**
      - Hotels & Travels
      - Flowers & Gifts
      - Nightlife
      - Event Planning
      - Food
      - Home & Garden
      - Active Life
      - Home Services
      - Dentists
      - Beauty & Spas
      - Transportation
      - Nurseries & C...
- Tapas/Small Pl
  - Korean
  - Polish
  - Tours
  - Amusement Pa**
    - Gas & Service S
      - Tapas Bars
      - Dominican
      - Hot Dogs
      - Greek
      - Outlet Stores
      - Mobile Phones
      - Adult Entertain
      - Singaporean
      - Shanghainese
      - Electronics
- Good For\_dessert
  - Good For\_latenight
  - Good For\_kids\_tru
  - Ambience\_trendy
  - Parking\_lot\_false
  - Waiter\_Service\_fa
  - Accepts\_Credit\_C
  - Outdoor\_Seating\_
  - Take\_out\_true
  - Wheelchair\_Acces
  - Good For\_Kids\_tru
  - Takes\_Reservatio
  - Parking\_validated
  - Parking\_garage\_f
  - Ambience\_tourist
  - Good For\_breakfa
  - Has\_TV\_false
  - Cool\_Fri\_Limp\_f

**YELP APPLICATION**

REVIEWS

From: 2007-May-01 To: 2016-May-25

No of Stars: > Value: 4

No of Votes: > Value: 2

**RESULTS**

FIRST_NAME	YELPING...	AVERAGE...	TOTAL_V...	YELP_ID
Chris	01-MAR...	3.14	41	01IDWYC...
Thomas	01-APR...	3.24	59	E_BXUIA...
Zey	01-MAR...	3.14	17	moQFRK...
Bry	01-MAY...	4.14	2	X7FhX...
Leanna	01-AUG...	3.28	1201	Qtr04AP...
Samantha	01-AUG...	2.75	1	-Hbtptf...
Susan	01-APR...	3.14	4	97V1H...
Lee	01-JAN...	4	2	36EpjW...
April	01-JUN...	4.27	59	YWBUx2...
Emily	01-AUG...	3.5	9	De8NQy...
Robert	01-JUN...	4.01	999	V7pppH...
Sarah	01-JAN...	3.85	53	qJgMWh...
Freddy	01-JAN...	2.81	45	gNXt3M...
Michael	01-OCT...	3.75	4	qsKJLJU...
Matt	01-DEC...	3.33	11	rW-ldN...
Jamie	01-MAR...	1	8	eEDlqo...
Steve	01-FEB...	4	3	74f4d...
Justin	01-JUL...	5	4	semrbvb...
Sheila	01-OCT...	2	0	iSW4uU...
Steven	01-MAY...	4.53	21	K18d4ft...
Krishna	01-JUL...	3.8	185	JwqjvT5...
Aaron	01-MAR...	4	0	C3mlp...
Dan	01-JUL...	4	1	ww71k...
Nick	01-SEP...	4	9	UWC8z2...
Karina	01-AUG...	3.67	0	Ac1vX...
Ashley	01-JAN...	2.71	10	e9Pvph...
Mary Ann	01-MAR...	2.5	2	t2mss3t...
Michael	01-SEP...	3.17	9	hjbhbgd...
Ashley	01-APR...	4	4	X4GxH8...
Lee	01-SEP...	3.83	6	qtrmBGN...
Jasmine	01-SEP...	5	36	OsxrH...
Harley	01-JAN...	1	1	5XhQ4c...
Tyler	01-AUG...	4.33	9	4djL2vp...
Gary	01-OCT...	3.19	107	e-G2NE...
Jody	01-JUN...	3.97	144	Yap-E1...
Azariah	01-APR...	3.58	69	BwIE75g...

**Execute Query** **Quit Application**

hw3

**BUSINESS**

- Convenience St
  - Department St
    - Automotive
    - Hardware Store
    - Restaurants**
      - Hotels & Travels
      - Flowers & Gifts
      - Nightlife
      - Event Planning
      - Food
      - Home & Garden
      - Active Life
      - Home Services
      - Dentists
      - Beauty & Spas
      - Transportation
      - Nurseries & C...
- Tapas/Small Pl
  - Korean
  - Polish
  - Tours
  - Amusement Pa**
    - Gas & Service S
      - Tapas Bars
      - Dominican
      - Hot Dogs
      - Greek
      - Outlet Stores
      - Mobile Phones
      - Adult Entertain
      - Singaporean
      - Shanghainese
      - Electronics
- Good For\_dessert
  - Good For\_latenight
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**YELP APPLICATION**

REVIEWS

From: 2007-May-01 To: 2016-May-25

No of Stars: > Value: 4

No of Votes: > Value: 2

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Jody	01-JUN...	3.97	144	Yap-E1...
Azariah	01-APR...	3.58	69	BwIE75g...

**Execute Query** **Quit Application**

hw3

User: Freddy  
Reviews: Horrible service!!!  
I was visiting LA and we had tons of hookah places. Since the moment we sat down they gave us a huge attitude. After seating us it took them over 10 minutes to even aknowledge us. They had only 4 other tables so we waited a facture had to get up and go to ask for more. Then I asked the waiter is he can give me a menu to order some food and something to drink. He said ohh the kitchen is closed. I said well can I atleast get a d Service is the key in these kind of business. I guess that is acceptable in Arizona but this place would not survive one day in LA.  
Poor management...

User: Freddy  
Reviews: I come to vegas very often atleast every other month. I ended up at Luxor due to the busy weekend and not being able to book pretty much anywhere else for under \$200 a night. So when I got a huge deal though Let me say that for \$69/night I have absolutely nothing bad to say as it was worth it but knowing what else exist in vegas at reasonable prices it would make this hotel not worth it at full price.  
I can eat & compete the service, atmosphere room is a Motel-6.  
The food is just average but the room is good.  
If you want to try the spa I suggest you cover up as it looked very dirty.  
Do your research but if you get a great deal like me you might be able to deal with the situation.

User: Freddy  
Reviews: Food is good but too one directional. If you eat here a few days in a row you find yourself staring at the food not knowing what to pick cause it's the same :-/

I guess better variety is what needs to be added but the food is good.  
The service is better. So you will leave happy.)

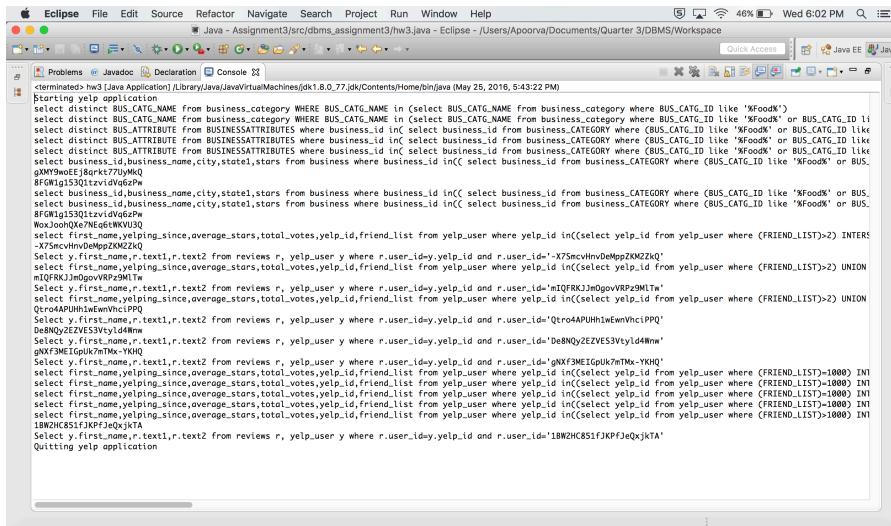
The one thing that stands out here at the bayside buffet is their service. The waiters/waitresses are very nice.

User: Freddy  
Reviews: I come to Vegas at least once every two months. I love the buffets and the convenience that you get in this city. However quality is important at the buffet. Of course you get what you pay for. The buffet at Luxor is soggy. No waitresses so if you are out of cream for your coffee you better snatch it from your neighbors.  
The price of \$15.99 for lunch is low enough that you can get full with without complaining but don't look for a dining experience. So far my top two buffets are Mirage and Planet hollywood. They are semi pricy but worth it.

User: Freddy  
Reviews: I was visiting from LA and first tried the PITA place which turned out to be a dump as far as service goes... but I was surprised with OASIS. Not too shabby... Good service.... Friendly, and good hookah.

Step 4: Click on 'Quit Application' to close the window or to stop the application.

Step 5: Console outputs the queries generated in all the above requests.



The screenshot shows the Eclipse IDE interface with the Java console tab active. The console window displays a large number of SQL queries, likely generated by a Java application, related to business categories and reviews. The queries involve joins between tables like 'business', 'category', 'review', and 'user', using various conditions such as category names ('Food'), user IDs, and review scores. The text is too long to reproduce fully here but is clearly visible in the Eclipse console.

```
terminated: hw3 [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_77.jdk/Contents/Home/bin/java (May 25, 2016, 5:43:22 PM)
Starting Yelp application
select distinct bus_catg_name from business_category WHERE BUS_CATG_NAME in (select BUS_CATG_NAME from business_category where BUS_CATG_ID like '%Food%'')
select distinct BUS_CATG_NAME from business_category WHERE BUS_CATG_NAME in (select BUS_CATG_ID like '%Food%' or BUS_CATG_ID like '%Food&%' or BUS_CATG_ID like '%Food%&%')
select distinct bus_attribute from business_attributes where business_id inC select business_id from business_CATEGORY where (BUS_CATG_ID like '%Food%' or BUS_CATG_ID like '%Food%' or BUS_CATG_ID like '%Food%&%')
select distinct bus_attribute from business_attributes where business_id inC select business_id from business_CATEGORY where (BUS_CATG_ID like '%Food%' or BUS_CATG_ID like '%Food%' or BUS_CATG_ID like '%Food%&%')
select business_id,business_name,city,state,stars from business where business_id inC select business_id from business_CATEGORY where (BUS_CATG_ID like '%Food%' or BUS
gXMY9meEJ8qrk770uMcQ
8F0M1g15301trvldvq6Pz
WoJxJZ07NEd6MKQ
select first_name,yelping_since,average_stars,total_votes,yelp_id,friend_list from yelp_user where yelp_id inC(select yelp_id from yelp_user where (FRIEND_LIST)>2) INTER
-x75mcvHnVdeMpZXMZ2kQ
Select y,first_name,r.text1,r.text2 from reviews r ,yelp_user y where r.user_id=y.yelp_id and r.user_id='x75mcvHnVdeMpZXMZ2kQ'
select first_name,yelping_since,average_stars,total_votes,yelp_id,friend_list from yelp_user where yelp_id inC(select yelp_id from yelp_user where (FRIEND_LIST)>2) UNION
mPQRKXJ3JndgovVRP9Mltw
Select y,first_name,r.text1,r.text2 from reviews r ,yelp_user y where r.user_id=y.yelp_id and r.user_id='mPQRKXJ3JndgovVRP9Mltw'
select first_name,yelping_since,average_stars,total_votes,yelp_id,friend_list from yelp_user where yelp_id inC(select yelp_id from yelp_user where (FRIEND_LIST)>2) UNION
Qtrro4APUHhiEwnVhciPPQ
Select y,first_name,r.text1,r.text2 from reviews r , yelp_user y where r.user_id=y.yelp_id and r.user_id='Qtrro4APUHhiEwnVhciPPQ'
DeNQy2EZVES3yvl4Nm
Select y,first_name,r.text1,r.text2 from reviews r , yelp_user y where r.user_id=y.yelp_id and r.user_id='DeNQy2EZVES3yvl4Nm'
gXMEIGpk7nNx-XHO
Select first_name,r.text1,r.text2 from reviews r , yelp_user y where r.user_id=y.yelp_id and r.user_id='gXMEIGpk7nNx-XHO'
select first_name,yelping_since,average_stars,total_votes,yelp_id,friend_list from yelp_user where yelp_id inC(select yelp_id from yelp_user where (FRIEND_LIST)=1000) INT
select first_name,yelping_since,average_stars,total_votes,yelp_id,friend_list from yelp_user where yelp_id inC(select yelp_id from yelp_user where (FRIEND_LIST)=1000) INT
select first_name,yelping_since,average_stars,total_votes,yelp_id,friend_list from yelp_user where yelp_id inC(select yelp_id from yelp_user where (FRIEND_LIST)=1000) INT
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1BWZHC85f1JKPf3eqJkT
Select y,first_name,r.text1,r.text2 from reviews r , yelp_user y where r.user_id=y.yelp_id and r.user_id='1BWZHC85f1JKPf3eqJkT'
Quitting Yelp application
```