# **Database Population and SQL Queries (Milestone 3)**

# **Queries and Descriptions**

### Webpage 1. Business searcher & recommender

#### 1.1 Business searcher

### A. Provide a list of businesses that meet users' selection criteria

Description	Users select state and city (required parameters) and input business name, category, postal code, rating star range, price range (optional parameters), return a list of businesses with their information that meet the selection criteria, sorted by descending order of rating stars and review count.		
Input parameters	state, city (required parameters) business name category, postal code, rating star range, price range (optional parameters)		
SQL	SELECT business_id, name, address, city, state, postal_code,     stars, review_count, categories,     RestaurantsPriceRange2 as price_range  FROM Business WHERE Name like '%starbucks%' AND postal_code='97202' AND city = 'Portland' AND state = 'OR'     AND stars>= 3 AND stars<=5 AND RestaurantsPriceRange2>=1 AND RestaurantsPriceRange2<=3 ORDER BY stars DESC, review_count DESC;		
Result sample	## business_id : ## name : ## address : ## city : ## state : ## postal_code : ## stars : ## review_count: ## categories : ## price_range : 1 6YJlzNqyyXGwwfsp_ Starbucks 1385 SE Tacoma St Portland OR 97282 3.5 22 Coffee & Tea, Food 1 2 mAvk5jvzTwTPsb0x_ Starbucks 4437 SE 39th Ave, A Portland OR 97282 3.5 19 Coffee & Tea, Food 2 3 OFKrWzTdBLFEQwfW_ Starbucks 7881 SE Milwaukee Ave Portland OR 97282 3.5 17 Food, Coffee & Tea 1 4 2yDk3cEj2COUt2dC_ Starbucks 3623 SE Powell Portland OR 97282 3 37 Food, Coffee & Tea 2		

## B. Provide detailed information of the user selected business

Description	Users selected a specific business and this query will provide detailed information of this business and its photos.
Input parameters	Business_id
SQL	<pre>WITH num_photos (business_id, num_photo) AS     (SELECT business_id, count(*) as num_photo from photo     WHERE business_id = 'ScmaNumIoT2gQanACvg') SELECT B.business_id, name, categories,     RestaurantsPriceRange2 as price_range, stars, review_count, is_open,     Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday,     address, city, state, postal_code,     RestaurantsTakeOut,     garage, lot, street, valet, validated,     photo_id, caption, label, num_photo FROM Business B join photo P on B.business_id = P.business_id join num_photos N on P.business_id = N.business_id WHERE B.business_id = 'ScmaNumIoT2gQanACvg';</pre>

#### 1.2 Business recommender

A. Provide a list of recommended businesses based on users' review history and selected location.

```
Description
               Based on the user's id and name, select the top 5 businesses the user has reviewed (sorted by
               descending order of the stars user gave) and extract the keyword from the business
               categories, stars user gave, and price range of these businesses.
               User input the specific state and city (and optionally input postal code), the query will find out
               the businesses in the location that have the specific stars, price range, and contain the
               keyword in the categories, and return the top 10 results sorted by stars and review counts.
Input
               User name, user id, state, city (required parameters)
               Postal code(optional parameter)
parameters
               WITH K (uid, name, business id, stars, price range, keyword) AS (
SQL
               SELECT U.user id, U.name, R.business id, R.stars, B.RestaurantsPriceRange2,
                        substring_index(B.categories, ',', 1) keyword
               FROM user U join review Portland R on U.user id=R.user id
               join Business B on R.business id = B.business id
               WHERE U.user id= 'zzYDSfrxsYaydnr8TnqD4A' and U.name = 'Nick' and
               U.review count>0
               ORDER BY stars DESC
               LIMIT 5)
               SELECT B.business id, B.name, B.address, B.city, B.state, B.postal code,
                        B.stars, B.review count, B.categories, B.RestaurantsPriceRange2 as
               price range
               FROM Business B join K
                    on B.RestaurantsPriceRange2 = K.price range AND B.stars=K.stars
               AND FIND_IN_SET(K.keyword, categories)
WHERE city = 'Portland' and state = 'OR'
               ORDER BY B.stars DESC, B.review count DESC
               LIMIT 10
                                                           囯 city
Result
                 IV18FC2S9ICn3aTSsaBmV0 Heirloom
                                            13585 SE River Rd
                                                           Portland OR
                                                                     97267
                                                                                      5 Caterers, Restaurants, Party &...
               2 KsW9Wsaaa5QxNHDxXIDxJA Pho Hung
                                            4717 SE Powell Blvd Portland OR
sample
                 ja7JE9z6kpCyYJiA97bf8w Marrakesh Restau... 1201 NW 21st Ave
                                                           Portland OR
               4 LfLNQC_C7xlnC_ojHMI7fw Cupcake Jones
                                            387 NW 18th Ave
                                                                                    471 Desserts, Cupcakes, Food, Wedd...
                5 DrOFKVAPaZjZXd600r77mA Papa Haydn - Sel_ 5829 SE Milwaukie Ave Portland OR
                                                                                    418 Desserts, Food, Nightlife, Ame...
                6 JTNfXNofJDYI67VC62aEiQ Double Dragon 1235 SE Division St Portland OR
                7 22rhH7RSqLxQqAaH6P9qOA Gracie's
                                            729 SW 15th Ave
                                                           Portland OR
                                                                                    305 Desserts, Breakfast & Brunch, ...
               8 I-j0Vr9vJAddRJz_Em3pJg Pho Kim
                                                                                    289 Vietnamese, Restaurants, Soup, ...
                                            2284 SE 82nd Ave
                                                           Portland OR
                 _Gp7wp0kLa9645oi3y_Ygw Pho Nguyen
                                            4795 SW 77th Ave
                                                           Portland OR
                                                                                    200 Vietnamese, Restaurants
                  _04PFbEbmfy7lKovpSF0xQ Pho Corner
                                            6120 NE Sandy Blvd
```

#### B. Provide detailed information of the user selected business

Description	Users selected a specific business and this query will provide detailed information of this business and its photos.	
Input parameters	Business_id	

```
WITH num_photos (business_id, num_photo) AS
SQL
                 (SELECT business_id, count(*) as num_photo from photo
WHERE business_id = 'IV18FC2S9ICn3aTSsaBmVQ')
             SELECT B.business id, name, categories,
                     RestaurantsPriceRange2 as price range, stars, review count, is open,
                     Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday,
                     address, city, state, postal code,
                     RestaurantsTakeOut,
                     garage, lot, street, valet, validated,
                     photo id, caption, label, num photo
             FROM Business B join photo P on B.business id = P.business id
             join num photos N on P.business id = N.business id
             WHERE B.business id = 'IV18FC2S9ICn3aTSsaBmVQ';
               Result
             1 IV18FC Heirl Caterers, 5 2 5 0 8:8:8:8:8:8:9:135 Po. OR 972 Tr. Fa. Tr. T. Fa. Fa. 91p-TNJZ-VN. interior IV18FC Heirl Caterers, 5 2 5 0 8:8:8:8:8:8:8:8:9:135 Po. OR 972 Tr. Fa. Tr. T. Fa. Tr. T. Fa. Fa. e1Y_dIQss6a - food
sample
```

#### Webpage 2. Find Users' N-Connection

2.1 User Login.

Description	User input Name and last 6 digit of UID to login, return the full user_ID for other query.				
Input parameters	Name, last 6 digit of UID				
SQL	SELECT user_id FROM user WHERE name="Don" AND user_id LIKE "%0ZxoUw";				
Result sample	pf7FI00ukC_CEcCz0ZxoUw				

#### 2.2 Users' favorite Business

Description	Use returned user_ID from User Login to search the user's 5 star reviewed business				
Input parameters	user_ID (from User Login)				
SQL	SELECT DISTINCT  RP.business_id, Business.name, Business.address, Business.city, Business.State,  Business.new_categories  FROM review_Portland RP JOIN Business ON RP.business_id=Business.business_id  WHERE RP.user_id="Pf7FI0OukC_CEcCz0ZxoUw" AND RP.stars=5;				
Result sample	■ business_id   LfLNQC_C7xlnC_ojHMI7fw Cupcake Jones  BVM-3sz3yzktmMDXHIPYRg Alaska Airlines  OrRRz-IEri3fmfNRiMSlkg BurnCycle  EH5soJB_QC5QVFHtKahT8Q The Country Cat Dinnerhouse & Bar	## address  307 NW 10th Ave  7000 NE Airport Way  910 NW 10th Ave  7937 SE Stark St	Portland OR Portland OR	Food Hotels & Travel Active Life Restaurants	

## 2.3 Business related 1-connection and 2-connection

Description	User select one business, and search for the business related 1-connection and 2-connection friends					
Input parameters	Business_ID(from User favorite Business), user_ID(from User Login)					
SQL	WITH ONE AS (     SELECT DISTINCT RP.user_id, user.name, 1 AS N     FROM review_Portland RP					
Result	■■ user_id					
sample	1 xKtauW_XxIDByQdrIDkPdg Kimberly 1					
	2 hmmzEyrKx8eo1jK1XwDQ7w Sam 1					

### Webpage 3. Business Scientist

3.1 Review star frequency distribution (count & percentage) at different geographic level

A. State's review star frequency distribution by city

Description	User select one State, export the star distribution of each city in the state
Input parameters	state name

```
SQL
             SELECT city, SUM(IF(stars<2,1,0)) AS 1star count, SUM(IF(stars<3 AND
             stars>=2,1,0)) AS 2star count, SUM(IF(stars<4 AND stars>=3,1,0)) AS
             3star_count,
             SUM(IF(stars<5 AND stars>=4,1,0)) AS 4star count, SUM(IF(stars=5,1,0)) AS
             5star count, SUM(IF(stars<2,1,0))/SUM(IF(stars>0,1,0)) AS 1star percent,
             SUM(IF(stars<3 AND stars>=2,1,0))/SUM(IF(stars>0,1,0)) AS 2star percent,
             SUM(IF(stars<4 AND stars>=3,1,0))/SUM(IF(stars>0,1,0)) AS
             3star percent, SUM(IF(stars < 5 \text{ AND stars} >= 4,1,0))/SUM(IF(stars > 0,1,0)) AS
             4star_percent, SUM(IF(stars=5,1,0))/SUM(IF(stars>0,1,0)) AS 5star percent
             FROM Business
             WHERE state="MA"
             GROUP BY city;
Result
             I≣ city
                        💠 📕 `1star_count` ÷ 📕 `2star_count` ÷ 📕 `3star_count` ÷ 📕 `4star_count` ÷ 📕 `5star_count` ÷ 🖽 `1star_percent` ÷
             Somerville
                                     10
                                                  87
                                                              293
                                                                          423
                                                                                        89
                                                                                                   0.0111
sample
                                                                                                   0.0205
             Concord
                                     3
                                                  14
                                                              51
                                                                           62
                                                                                        16
                                     18
                                                  38
                                                              99
                                                                           96
                                                                                        31
                                                                                                   0.0638
             Cambridge
                                     15
                                                 198
                                                              635
                                                                          750
                                                                                       161
                                                                                                   0.0085
                                     9
                                                                                                   0.0251
             Beverly
                                                              96
                                                                          156
```

B. City's review star frequency distribution by zip

Description	User select one city, export the star distribution of each zip area in the city						
Input parameters	city name						
SQL	stars>=2,1 3star_coun SUM(IF(sta: 5star_coun SUM(IF(sta:	SELECT postal_code, SUM(IF(stars<2,1,0)) AS 1star_count, SUM(IF(stars<3 AND stars>=2,1,0)) AS 2star_count, SUM(IF(stars<4 AND stars>=3,1,0)) AS 3star_count, SUM(IF(stars<5 AND stars>=4,1,0)) AS 4star_count, SUM(IF(stars=5,1,0)) AS 5star_count, SUM(IF(stars<2,1,0))/SUM(IF(stars>0,1,0)) AS 1star_percent, SUM(IF(stars<3 AND stars>=2,1,0))/SUM(IF(stars>0,1,0)) AS 2star_percent, SUM(IF(stars<4 AND stars>=3,1,0))/SUM(IF(stars>0,1,0)) AS 3star_percent, SUM(IF(stars<5 AND stars>=4,1,0))/SUM(IF(stars>0,1,0)) AS 4star_percent, SUM(IF(stars=5,1,0))/SUM(IF(stars>0,1,0)) AS 5star_percent FROM Business WHERE city="Somerville" SROUP BY postal_code;					
	3star_perce 4star_perce FROM Busine WHERE city	ent, SUM(IF( ent, SUM(IF ess ="Somervill	stars<5 AND '(stars=5,1,	stars>=4,1	, 0))/SUM(IE	(stars>0,1,	0)) AS
Result	3star_perce 4star_perce FROM Busine WHERE city GROUP BY pe	ent, SUM(IF( ent, SUM(IF) ess ="Somervill ostal_code;	stars<5 AND '(stars=5,1, e"	<pre>stars&gt;=4,1 0))/SUM(IF(  113'3star_count':</pre>	,0))/SUM(II stars>0,1,0	F(stars>0,1,0)) AS 5star	O)) AS c_percent
	3star_perce 4star_perce FROM Busine WHERE city: GROUP BY pe	<pre>ent, SUM(IF( ent, SUM(IF) ess ="Somervill ostal_code;</pre>	stars<5 AND (stars=5,1, e"	<pre>stars&gt;=4,1 0))/SUM(IF(  '3star_count': 109</pre>	,0))/SUM(II stars>0,1,0	F(stars>0,1,	0)) AS c_percent
	3star_perce 4star_perce FROM Busine WHERE city: GROUP BY perce	ent, SUM(IF( ent, SUM(IF) ess ="Somervill ostal_code;    'Istar_count':	stars<5 AND '(stars=5,1, e"  11 '2star_count': 35	<pre>stars&gt;=4,1 0))/SUM(IF(  '3star_count': 109 102</pre>	,0))/SUM(IE stars>0,1,0	F(stars>0,1,0)) AS 5star  **Sstar_count' : 50	O)) AS c_percent  [ `Istar_percent` : 0.0053
Result sample	3star_perce 4star_perce FROM Busine WHERE city: GROUP BY perce	ent, SUM(IF( ent, SUM(IF) ess ="Somervill ostal_code;     `lstar_count` :	stars<5 AND '(stars=5,1, e"  11 '2star_count': 35 27	<pre>Stars&gt;=4,1 0))/SUM(IF(  109 102 80</pre>	,0))/SUM(IE stars>0,1,0 IE `4star_count` : 178 144	F(stars>0,1, 0)) AS 5star  **E '5star_count' : 50 21	0)) AS c_percent  1

#### C. Zip level review star distribution (individual zip)

Description	User select one postal code, export the star distribution
Input parameters	zip code

SQL	SELECT stars, COUNT(*) AS count, COUNT(*)/SUM(COUNT(*)) OVER () AS percent FROM Business WHERE postal_code="2143" GROUP BY stars ORDER BY stars;					
Result	■ stars ÷	II≣ count ÷	I≣ percent ÷			
sample	1.5	2	0.0053			
	2	13	0.0345			
	2.5	24	0.0637			
	3	37	0.0981			
	3.5	73	0.1936			
	4	90	0.2387			
	4.5	88	0.2334			

Note: A-C in 3.1 together will be a function module for the web

## 3.2 Price range frequency distribution (count & percentage) at different geographic level

A. State's price range frequency distribution by city

Description	User select or	ne state, expor	t the business	price distributi	on of each city	in the state	
Input parameters	state name						
SQL	1price_coun 2price_coun SUM(IF(Rest 4price_coun ge2>0,1,0)) SUM(IF(Rest AS 2price_p SUM(IF(Rest AS 3price_perc ange2>0,1,0 FROM Busine WHERE State GROUP BY ci	AS 1price_p aurantsPrice ercent, aurantsPrice ent, SUM(IF(R))) AS 4price ss ="MA"	taurantsPrice ta	ceRange2=2,1 ceRange2=3,1 ceRange2=1,1 ceRange2=1,1 ceRange2=1,1 ceRange2=4	<pre>,0)) AS ,0)) AS 3pri ,0))/SUM(IF( estaurantsPr estaurantsPr ,1,0))/SUM(I</pre>	ce_count, RestaurantsPriceRange2>0,1 iceRange2>0,1 F(Restaurants	,0))
Result	I≣ city ÷	I≣ `1price_count` ÷	I≣ `2price_count` ÷	I⊞ `3price_count` ÷	I≣ `4price_count` ÷	I≣ `1price_percent` ÷	
sample	Somerville	220	362	32			
Janipic	Concord	12	65	20	3		
	Lynn	101	64	11	1		
	Cambridge	353	741	175			
	Beverly	81	119	20	3	0.3632	

## B. City's price range frequency distribution by zip

Description	User select one city, export the business price distribution of each zip area in the city
Input parameters	city name

SQL	lprice_co 2price_co 2price_co SUM(IF(Re 4price_co nge2>0,1, SUM(IF(Re AS 2price SUM(IF(Re AS 3price_pe Range2>0, FROM Busi WHERE cit GROUP BY	staurantsPrunt, SUM(IF 0)) AS 1pri staurantsPri percent, staurantsPri rcent, SUM(1,0)) AS 4pri staurantsPri rcent, SUM(1,0)) AS 4pri staurantsPri staurantsPri rcent, SUM(1,0)) AS 4pri staurantsPri sta	(Restaurant (Restaurant riceRange2= (Restaurant ice_percent riceRange2= riceRange2= riceRange2=	csPriceRang csPriceRang =4,1,0)) AS csPriceRang c, =2,1,0))/SU =3,1,0))/SU antsPriceRa	Te2=2,1,0)) Te2=3,1,0)) Te2=3,1,0)) TM(IF(Restanting) TM(IF(Restan	AS AS 3price_c /SUM(IF(Rest urantsPriceF	count, aurantsPriceRa ange2>0,1,0)) ange2>0,1,0)) estaurantsPrice
Result sample	-					I≣ `1price_percent` ÷	
	02143	79	141	19		0.3264	
	02144	82	128	9			
	02145	58	90	4		0.3791	
	02141	θ	1	0	0	0.0000	
	02114	θ	1	0	0	0.0000	

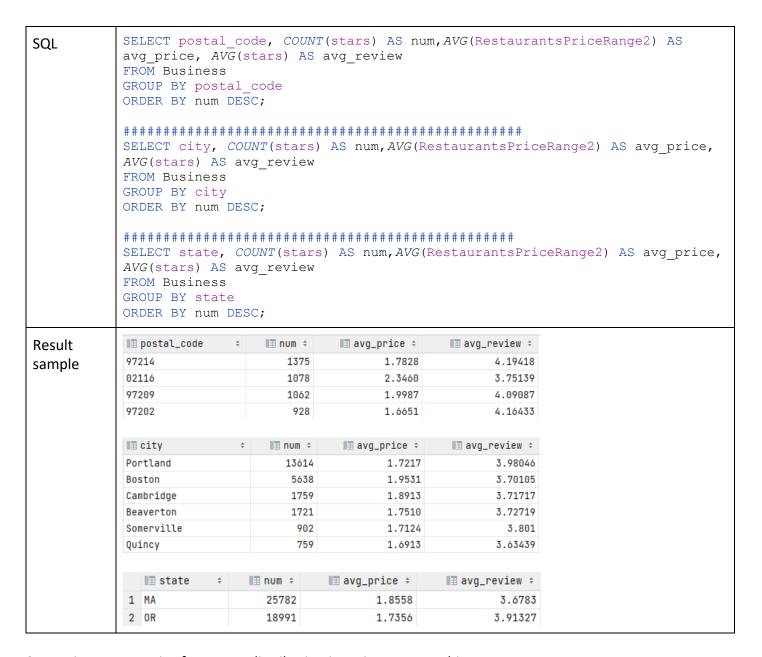
## C. Zip level price range frequency distribution (individual zip)

Description	User select one zip, export the business price distribution			
Input parameters	zip code			
SQL	SELECT RestaurantsPriceRange2,  COUNT(RestaurantsPriceRange2)/SUM(COUNT(RestaurantsPriceRange2)) OVER () AS percent  FROM Business  WHERE postal_code="02143" AND RestaurantsPriceRange2 IS NOT NULL  GROUP BY RestaurantsPriceRange2  ORDER BY RestaurantsPriceRange2;			
Result	I≣ RestaurantsPriceRange2 ≎	I≣ percent ≎		
sample	1	0.3320		
	2	0.5779		
	3	0.0779		
	4	0.0123		

Note: A-C in 3.2 together will be a function module for the web

## 3.3 Average price and review star summary

Description	Summary by states, cities, or zip codes, to get the average price and review star of business in each area
Input parameters	None



#### 3.4 Business categories frequency distribution in a given geographic area

Description	Summary by states, cities, or zip codes, to get the percentage of each different categories of business			
Input parameters	State, or city, or zip			
SQL	<pre>SELECT new_categories, COUNT(*) AS count, COUNT(*)/SUM(COUNT(*)) OVER () AS percent FROM Business WHERE postal_code="02143" GROUP BY new_categories ORDER BY count DESC ; ###################################</pre>			

```
SELECT new categories, COUNT(*) AS count, COUNT(*)/SUM(COUNT(*)) OVER () AS
           percent
           FROM Business
           WHERE city="Portland"
           GROUP BY new categories
           ORDER BY count DESC
           SELECT new categories, COUNT(*) AS count, COUNT(*)/SUM(COUNT(*)) OVER () AS
           percent
           FROM Business
           WHERE State="MA"
           GROUP BY new categories
           ORDER BY count DESC
Result
           I new_categories
                                      ‡
                                          III count ÷
                                                     I≣ percent ÷
sample
           Restaurants
                                                129
                                                          0.3422
           Shopping
                                                56
                                                          0.1485
           Food
                                                43
                                                          0.1141
           Local Services
                                                          0.0822
                                                31
                                                          0.0796
           Automotive
                                                30
           Beauty & Spas
                                                24
                                                          0.0637
```

### 3.5 County health rankings and review star (or price range) frequency distribution within a given state

Description	User selected a specific state and the query will provide the health ranking, frequency distribution (i.e. count and percentage) of businesses' stars and price levels by county within the state.	
Input parameters	state	
SQL	<pre>WITH H (business_id, price_range, stars, type,     zip, city, state, fips, county, num_ranked_counties,     health_factors_rank) AS     (SELECT B.business_id, RestaurantsPriceRange2, stars, new_categories,     B.postal_code, B.city, B.state, R.fips, R.county, R.number_of_ranked_counties,     R.health_factors_rank FROM Business B join Zip_county_crosswalk Z     on B.postal_code = Z.zip AND B.city = Z.city AND B.state = Z.state     join County_health_ranking R on Z.fips = R.fips     WHERE B.state = 'MA') SELECT H.state, H.num_ranked_counties, H.fips, H.county, H.health_factors_rank,     SUM(IF(H.price_range = 1, 1, 0)) as price1_count,     SUM(IF(H.price_range = 2, 1, 0)) as price2_count,     SUM(IF(H.price_range = 3, 1, 0)) as price3_count,     SUM(IF(H.price_range = 4, 1, 0)) as price4_count,     SUM(IF(H.price_range &gt; 0, 1, 0)) as price2_count,     SUM(IF(H.price_range = 1, 1, 0))/SUM(IF(H.price_range &gt; 0, 1, 0)) as price1_pct,</pre>	

```
SUM(IF(H.price range = 2, 1, 0))/SUM(IF(H.price range > 0, 1, 0)) as
            price2 pct,
                    SUM(IF(H.price range = 3, 1, 0))/SUM(IF(H.price range > 0, 1, 0)) as
            price3 pct,
                    SUM(IF(H.price range = 4, 1, 0))/SUM(IF(H.price range > 0, 1, 0)) as
            price4 pct,
                    SUM(IF(H.stars <= 1, 1, 0)) as star0 1 count,</pre>
                    SUM(IF(H.stars>1 AND stars<=2, 1, 0)) as star1 2 count,
                    SUM(IF(H.stars>2 AND stars<=3, 1, 0)) as star2_3_count,</pre>
                    SUM(IF(H.stars>3 AND stars<=4, 1, 0)) as star3 4 count,</pre>
                    SUM(IF(H.stars>4 AND stars<=5, 1, 0)) as star4 5 count,</pre>
                    SUM(IF(H.stars > 0, 1, 0)) as star count,
                    SUM(IF(H.stars <= 1, 1, 0))/SUM(IF(H.stars >0, 1, 0)) as star0_1_pct,
                    SUM(IF(H.stars>1 AND stars<=2, 1, 0))/SUM(IF(H.stars >0, 1, 0))
            star1 2_pct,
                    SUM(IF(H.stars>2 AND stars<=3, 1, 0))/SUM(IF(H.stars >0, 1, 0))
            star2_3 pct,
                    SUM(IF(H.stars>3 AND stars<=4, 1, 0))/SUM(IF(H.stars >0, 1, 0))
            star3 4 pct,
                    SUM(IF(H.stars>4 AND stars<=5, 1, 0))/SUM(IF(H.stars >0, 1, 0))
            star4 5 pct
            FROM H
            GROUP BY H.state, H.fips, H.county, H.health factors rank
            ORDER BY H.state, H.health factors rank
Result
                                 14 25021
                                         Norfolk
                                                                        0.2716
                                                                                 0.6079
                                                                                          0.1059
                                                                                                   0.0146
             2 MA
3 MA
sample
                                 14 25017
                                         Middlesex
                                                                        0.2875
                                                                                 0.5984
                                                                                          0.0989
                                                                                                   0.0151
                                 14 25023
                                         Plymouth
                                                                        0.2030
                                                                                 0.5904
                                                                                          0.1919
                                                                                                   0.0148
                                 14 25889
                                         Essex
                                                                        0.3078
                                                                                 0.5864
                                                                                          0.0935
                                                                                                   0.0123
                                  14 25025
                                         Suffolk
                                                                        0.3035
                                                                                          0.1467
```

#### **Credentials**

}

 We use Amazon AWS database (MySQL) to host our data and below is the information to access to the database.

```
"rds_host": "database-newbee.cmya8s5xkkje.us-east-1.rds.amazonaws.com",
"rds_port": "3306",
"rds_user": "newbeedata",
"rds_password": "newbee1234",
"rds_db": "Yelp_project",
"server_host": "127.0.0.1",
"server_port": "8080"
```

 We use Amazon S3 to host our photos and below is a link of sample photo: https://yelpphoto.s3.amazonaws.com/CCbMJ0qYIYAB3GJ8DA-pFg.jpg