

▼ Assuming, we are planning to open a restaurant in Philadelphia 🍷:

Before opening a restaurant one must keep in mind a lot of factors like:

1. Type of restaurant you want to open
2. Target Audience
3. Is there a demand/need for the type of place you are considering
4. What kind of facilities you want to offer?
5. Do you want to offer Alcohol? Should you consider getting an alcohol licence ?
6. Do you want to offer food delivery?
7. Should you consider opening just a dessert place or a bakery?

Several other factors and questions arise, we have taken some and tried to answer them by querying the YELP Database

* Code to check if the Team database connections are working *

```
!pip install mysqlclient
```

```
Collecting mysqlclient
  Downloading mysqlclient-2.1.0.tar.gz (87 kB)
    |████████████████████████████████████████| 87 kB 4.4 MB/s
Building wheels for collected packages: mysqlclient
  Building wheel for mysqlclient (setup.py) ... done
  Created wheel for mysqlclient: filename=mysqlclient-2.1.0-cp37-cp37m-linux_x86_64.whl
  Stored in directory: /root/.cache/pip/wheels/97/d4/df/08cd6e1fa4a8691b268ab254bd0fa589
Successfully built mysqlclient
Installing collected packages: mysqlclient
Successfully installed mysqlclient-2.1.0
```

```
%load_ext sql
```

```
# Enter team name (team#) and password below to check connection
```

```
%sql mysql://team7:*****@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
```

```
'Connected: team7@None'
```

* Showing Databases *

```
%sql show databases
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
2 rows affected.
```

Database

```
information_schema
```

```
team7
```

```
# your team name is the same as your schema/database name
```

```
%sql use team7
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
0 rows affected.
[]
```

* Showing Tables *

```
# The first time you run this, there should be no tables in the schema/database
```

```
%sql show tables;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

Tables_in_team7

```
ASSIGNMENT
```

```
Checkin
```

```
EMPLOYEE
```

```
JOB
```

```
PROJECT
```

```
business
```

```
checkin
```

```
review
```

```
tip
```

```
user
```

* We will be working with Business Table in our Database *

```
%%sql
```

```
use business;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
(MySQLdb._exceptions.OperationalError) (1044, "Access denied for user 'team7'@'%' to da1
[SQL: use business;]
(Background on this error at: https://sqlalche.me/e/14/e3q8)
```

* Viewing the first 5 Data Rows of the Business Table *

```
%%sql
```

```
select * from business limit 5
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
5 rows affected.
```

index	business_id	name	address	city	state	postal_code	latitude
0	Pns2l4eNsfO8kk83dixA6A	Abby Rappoport, LAC, CMQ	1616 Chapala St, Ste 2	Santa Barbara	CA	93101	34.4266787 -

QUESTIONS TO CONSIDER WHILE DOING RESEARCH FOR OPENING A RESTAURANT

THE PUB Grasso

Q1. Is there any pub available in the area we want to open a business in? Should we consider opening a pub if it's not present?

```
%%sql
SELECT name,address, stars FROM business
WHERE city="Philadelphia" AND categories LIKE '%Pubs%'
ORDER BY review_count DESC
LIMIT 5;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
5 rows affected.
```

name	address	stars
Good Dog Bar	224 S 15th St	4.0
Harp & Crown	1525 Sansom St	4.0
National Mechanics	22 S 3rd St	4.0
Khyber Pass Pub	56 S 2nd St	4.0
Yards Brewing Company	500 Spring Garden St	4.0

Q2. How many places are offering Happy Hours ? Should we try to lure customers by offering happy hours ?

```
%%sql
SELECT name,address, stars, review_count, hours FROM business
WHERE city='Philadelphia' AND attributes LIKE '%"HappyHour": "True"%'
ORDER BY stars DESC
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	address	stars	review_count	hours
Algorithm Restaurants		5.0	10	{"Friday": "16:0-21:0", "Monday": "12:0-17:0", "Sunday": "12:0-17:0", "Tuesday": "12:0-21:0", "Saturday": "16:0-21:0", "Thursday": "16:0-21:0", "Wednesday": "16:0-21:0"}
City Cigars	615 Byberry Rd	5.0	8	{"Friday": "10:0-0:30", "Monday": "10:0-0:30", "Sunday": "10:0-0:30", "Tuesday": "10:0-0:30", "Saturday": "10:0-0:30", "Thursday": "10:0-0:30", "Wednesday": "10:0-0:30"}

Q3. Should we consider opening a dessert place ? What are the attributes of the most popular dessert place, something people look for?

```
El Boom      1438      5.0      10      {"Friday": "11:0-20:00", "Monday": "11:0-20:00", "Sunday": "11:0-20:00", "Tuesday": "11:0-20:00", "Saturday": "11:0-20:00", "Thursday": "11:0-20:00", "Wednesday": "11:0-20:00"}

%%sql
SELECT name, stars,postal_code, attributes,hours FROM business
WHERE city = 'Philadelphia' AND categories LIKE '%Dessert%'
ORDER BY stars DESC
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	stars	postal_code	attributes
The Sweet Life Bakeshop	5.0	19147	{"Caters": "True", "DriveThru": "False", "NoiseLevel": "u'quiet'", "BikeParking": "True", "DogsAllowed": "False", "GoodForKids": "True", "BusinessParking": "True", "garage": False, "street": True, "validated": False, "lot": False, "valet": False}, "RestaurantsTakeOut": "None", "RestaurantsDelivery": "True", "WheelchairAccessible": "True", "BusinessAcceptsBitcoin": "False", "RestaurantsPriceRange2": "2", "BusinessAcceptsCreditCards": "True"}

Q4. Should we consider opening a Smokehouse or a BBQ place if there is no Smokehouse in Belleville?

```
%%sql
SELECT name, address, city,stars FROM business
WHERE city ='Philadelphia' AND categories LIKE '%Barbeque%'
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	address	city	stars
Chenango Restaurant & Bar	1031 Germantown Ave	Philadelphia	2.0
About BBQ	933 Race Sreet	Philadelphia	4.0
Oh So Good	1900 Market St	Philadelphia	3.5
So Korean Grill	6201 N Front St, Ste 120	Philadelphia	4.5
Jeisy Grilled Chicken	5701 Germantown Ave	Philadelphia	4.0
JD's Soul Food Kitchen	4056 Lancaster Ave	Philadelphia	3.0
Smokey Pint	2549 Orthodox St	Philadelphia	4.0
Mommy Telly's Famous BBQ	23 N 33rd St	Philadelphia	5.0
El Camino Real	1040 N 2nd St	Philadelphia	3.5
South Philly Smökhaus	821 Dudley St, Room 108	Philadelphia	4.0

```
%%sql
SELECT name, address, city,stars FROM business
WHERE city ='Philadelphia' AND attributes LIKE '%"BikeParking": "False", "RestaurantsDelivery": "True",'
```

Q5. Are there any Dog Friendly restaurants where the owners can take their dogs with them? If not, we can consider opening a restaurant that is pet friendly.

```
%%sql
SELECT name, address, city,stars FROM business
WHERE city ='Philadelphia' AND attributes LIKE '%"DogsAllowed": "True%" AND categories='Rest
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
0 rows affected.
```

name address city stars

Q6. Do restaurants in Philadelphia have outdoor seating? If not, we can consider outdoor seating.

```
%%sql
```

```
SELECT name, address, city,stars FROM business
WHERE city = 'Philadelphia' AND attributes LIKE '%"OutdoorSeating": "True"%'
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	address	city	stars
Tuna Bar	205 Race St	Philadelphia	4.0
DeSandro on Main	4105 Main St	Philadelphia	3.0
Craft Hall	901 N Delaware Ave	Philadelphia	3.5
ReAnimator Coffee	1523 E Susquehanna Ave	Philadelphia	4.0
Red Hook Coffee & Tea	765 S 4th St	Philadelphia	4.5
Acadia	824 S 8th St	Philadelphia	4.0
The Love	130 S 18th St	Philadelphia	4.0
Paddy Whacks Irish Sports Pub - South Street	150 South St	Philadelphia	2.5
The Twisted Tail	509 S 2nd St	Philadelphia	4.0
Whetstone Tavern	700 S 5th St	Philadelphia	4.0

Q7. How many restaurants in Philadelphia offer food delivery ? Name the top 10 restaurants which offer food delivery?

```
%%sql
```

```
SELECT count(*) FROM business
WHERE city = 'Philadelphia' AND attributes LIKE '%"RestaurantsDelivery": "True"%' ;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
1 rows affected.
```

```
count(*)
1296
```

```
%%sql
```

```
SELECT name, address ,stars, hours FROM business
WHERE city = 'Philadelphia' AND attributes LIKE '%"RestaurantsDelivery": "True"%'
ORDER BY stars DESC
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	address	stars	hours
Tony Express	3334 N Broad St	5.0	{"Friday": "8:0-19:0", "Monday": "8:0-18:45", "Tuesday": "8:0-18:45", "Wednesday": "8:0-18:45", "Thursday": "8:0-18:45", "Saturday": "8:0-18:45", "Sunday": "8:0-18:45"}
Rasavat	9321 Krewstown Rd	5.0	{"Friday": "17:0-21:30", "Monday": "17:0-21:30", "Tuesday": "17:0-21:30", "Wednesday": "17:0-21:30", "Thursday": "17:0-21:30", "Saturday": "17:0-21:30", "Sunday": "17:0-21:30"}
Flow State CoffeeBar	2413 Frankford Ave	5.0	{"Friday": "10:0-13:0", "Monday": "10:0-13:0", "Tuesday": "10:0-13:0", "Wednesday": "10:0-13:0", "Thursday": "10:0-13:0", "Saturday": "10:0-13:0", "Sunday": "10:0-13:0"}

Q8. What is the price range in which the restaurants lie ? This will give us number of restaurants that are

- Low Range
- Medium Range
- High Range

This will give us an idea about how much people are willing to spend on an average.

#LOW RANGE

```
%%sql
```

```
SELECT name,address,stars, review_count FROM business
WHERE city = 'Philadelphia' AND attributes LIKE '%"RestaurantsPriceRange2": "1"' AND category = 'Restaurant'
ORDER BY stars DESC
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	address	stars	review_count
Mom Mom's Kitchen and Polish Food Cart	1505 South St	5.0	91
Mike's Hot Dog Cart	24th & Passyunk Ave	5.0	22
Polka Deli Inc	2719 E Allegheny Ave	5.0	9
Maplewood Nutrition & Dietary Food Shop	51 Maplewood Ave	5.0	6
Fiorella's Sausage	817 Christian St	5.0	27
Bangin' Curry Franklin	1670 Washington Ave	5.0	77
52nd Station Diner	9 S 52nd St	5.0	15
Antonio's Deli	1014 Federal St	5.0	58
Castellino's	1255 E Palmer St	5.0	72
El Soto Deli & Grocery	1500 Tasker 15th St	5.0	15

#MEDIUM RANGE

```
%%sql
```

```
SELECT name,address,stars, review_count FROM business
WHERE city = 'Philadelphia' AND attributes LIKE '%"RestaurantsPriceRange2": "2"' AND category = 'Restaurant'
```



```
ORDER BY stars DESC
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	address	stars	review_count
Rasavat	9321 Krewstown Rd	5.0	28
Otolith Sustainable Seafood	2133 Huntingdon St	5.0	10
Barone's How U Doin' Deli & Grocery	1515 W Porter St	5.0	11
Peking Garden	2205 N Broad St	5.0	9
Circles + Squares	2513 Tulip St	5.0	103
Taco & Ramen	615 South St	5.0	26
J Sushi	243 S 10th St	4.5	72
Jong Ka Jib	6600 N 5th St	4.5	351
Flambo Caribbean Restaurant	820 N Broad St	4.5	138
The Lunchbox	2124 Richmond St	4.5	20

```
#HIGH RANGE
```

```
%%sql
```

```
SELECT name,address,stars, review_count FROM business
WHERE city = 'Philadelphia' AND attributes LIKE '%"RestaurantsPriceRange2": "3"' AND categories
ORDER BY stars DESC
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	address	stars	review_count
Angelina's	743 S 8th St	4.5	49
Suraya	1528 Frankford Ave	4.5	1121
Spice Finch	220 S 17th St	4.5	325
Bistrot La Minette	623 S 6th St	4.5	619
Townsend	2121 Walnut St	4.5	246
Via Locusta	1723 Locust St	4.5	144
Casta Diva	227 S 20th St	4.5	148
Laser Wolf	1301 N Howard St	4.5	162
Palizzi Filippo Social Club	1408 S 12th St	4.5	15
Tria Cafe Rittenhouse	123 S 18th St	4.5	880

Q9. List of restaurants that have a Television in the restaurants. We can consider adding televisions for special match screenings and songs.

```
%%sql
```

```
SELECT name, address, city,stars,categories FROM business
WHERE city = 'Philadelphia' AND attributes LIKE '%"HasTV": "True"'
Order by stars DESC
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	address	city	stars	categories
Alena's Cafe	6669 Germantown Ave	Philadelphia	5.0	Cafes, Restaurants
O blue café	400 Fairmount Ave	Philadelphia	5.0	Restaurants, Cafes
Boricua Restaurant	1149 N 3rd St	Philadelphia	5.0	Caribbean, Spanish, Puerto Rican, Latin American
Mike's Hot Dog Cart	24th & Passyunk Ave	Philadelphia	5.0	Food Stands, Restaurants
Dr Thunder Karaoke		Philadelphia	5.0	Event Planning & Services, DJs, Party & Event Planners, Nightlife, Trivia Hosts, Officiants

Q10. Which top 10 restaurants are offering Breakfast & Brunch? If there are not many breakfast or brunch special places, we can consider opening such a place.

```
%%sql
```

```
SELECT name, address, city, stars FROM business
WHERE city = 'Philadelphia' AND categories LIKE '%Breakfast & Brunch%'
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	address	city	stars
Red Hook Coffee & Tea	765 S 4th St	Philadelphia	4.5
Acadia	824 S 8th St	Philadelphia	4.0
The Love	130 S 18th St	Philadelphia	4.0
NY Bagel Cafe & Deli	4514 B City Line Ave, Ste 220	Philadelphia	3.0
Chick-fil-A	9711 Roosevelt Blvd	Philadelphia	4.0
NY Bagel & Deli Shop	1120 Buttonwood St	Philadelphia	4.0
Cafe Victoria's	325 N 12th St	Philadelphia	3.0
24	2401 Walnut St	Philadelphia	3.5
Cedar Park Cafe	4914 Baltimore Ave	Philadelphia	4.0
Breakfast Boutique Chestnut Hill	8630 Germantown Ave	Philadelphia	3.0

Q11. List the top 10 restaurants that offer Bubble Tea ? If there are not many bubble tea joints, we can consider opening a Bubble Tea Joint or can offer bubble Tea in our restaurants.

```
%%sql
```

```
SELECT name, address, city, stars FROM business
WHERE city = 'Philadelphia' AND categories LIKE '%Bubble Tea%'
ORDER BY stars
LIMIT 10;
```

```
* mysql://team7:***@badm-database.cte4bvaqxbgn.us-east-2.rds.amazonaws.com:3306
10 rows affected.
```

name	address	city	stars
Mr Wish	5520 Whitaker Ave, Ste 10	Philadelphia	2.5
HaoTea	2825 Cottman Ave, Unit 3	Philadelphia	3.0
Kung Fu Tea	2222 Cottman Ave	Philadelphia	3.0
Tea Magic	123 N 10th St	Philadelphia	3.0
Whirled Peace Frozen Yogurt & Smoothies	4321 Main St	Philadelphia	3.5
MIUCHA	222 N 10th St	Philadelphia	3.5
Tsaocaa	1715 Chestnut St	Philadelphia	3.5
Poké-Man	3737 Chestnut St	Philadelphia	3.5
Kung Fu Tea	600 Washington Ave, Unit 16	Philadelphia	3.5
Ten Asian Food Hall	1715 Chestnut St	Philadelphia	3.5

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