

Yelp Reviews Database System

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BACKGROUND

Who are our Users?

Our users are Prospective UMD students and new residents to the College Park area.

What data did we use?

For our proof of concept, we used data provided by Yelp that includes different cities to supplement College Park Data



INTRODUCTION



Mission Statement

Our mission is to increase the accessibility to the amenities that College Park has to offer, whether they are prospective students or businesses. We intend on connecting these stakeholders by using a one-stop shop directory that is convenient and informative.

MISSION OBJECTIVES



Increase number of student applicants that are informed

UMD



Increase client base by providing transparent and real information

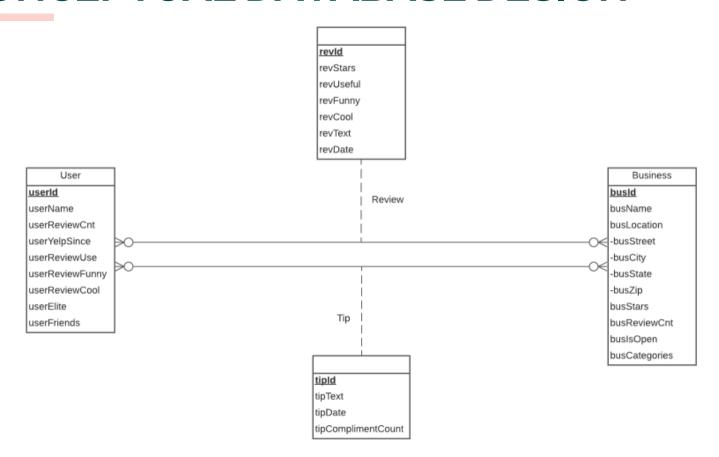
CP Businesses



Make transition and settling in period smoother

New Residents

CONCEPTUAL DATABASE DESIGN



LOGICAL DATABASE DESIGN

User (<u>userId</u>, userName, userReviewCnt, userYelpSince, userReviewUse, userReviewFunny, userReviewCool, userElite, userFriends)

Business (<u>busId</u>, busName, busStreet, busCity, busState, busZip, busStars, busReviewCnt, busIsOpen, busCategories)

Review (<u>revId</u>, <u>userId</u>, <u>busId</u>, revStars, revUseful, revFunny, revCool, revText, revDate)

Tip (tipld, userld, busld, tipText, tipDate, tipComplimentCount)

```
CREATE TABLE REVIEW T
                                               PHYSICAL
    (revid VARCHAR (255) NOT NULL,
        userId VARCHAR (255),
                                              DATABASE
         busId
                     VARCHAR (255),
         revStars FLOAT,
                                                   DESIGN
         revDate CHAR(100),
         revText VARCHAR(3000),
         revUseful INTEGER,
         revFunny INTEGER,
         revCool INTEGER,
         CONSTRAINT pk REVIEW revid PRIMARY KEY (revid),
         CONSTRAINT fk REVIEW busid FOREIGN KEY (busid)
              REFERENCES [BUSINESS T] (busId)
              ON DELETE CASCADE ON UPDATE CASCADE,
         CONSTRAINT fk REVIEW userId FOREIGN KEY (userId)
              REFERENCES [USER T] (userId)
              ON DELETE CASCADE ON UPDATE CASCADE
              );
```



What are the Top 5 businesses with the highest average star ratings?

CREATE VIEW avg_review_ratings AS
SELECT TOP 5 b.busName AS 'Business Name', b.busCategories AS 'Category', AVG(r.revStars) AS
'Average Star Ratings'
FROM BUSINESS_T b INNER JOIN REVIEW_T r ON b.busId = r.busId
GROUP BY b.busCategories, b.busName
ORDER BY 'Average Star Ratings' DESC;



Brookland Press	Apartment	4.5
Hibachi-San	Restaurant	4
Brooklyn Housing	Apartment	4
The Hall CP	Restaurant	3
Blaze Pizza	Restaurant	2.875



What are the top 10 businesses with the most reviews?

CREATE VIEW top_10_business_with_most_reviews AS
SELECT TOP 10 b.busName AS 'Business Name', b.busCategories AS 'Category', b.busReviewCnt AS
'Review Count'
FROM BUSINESS_T b
GROUP BY b.busCategories, b.busName, b.busReviewCnt
ORDER BY b.busReviewCnt DESC;



Busboys and Poets	Restaurant	1401
"Duck Donuts"	Breakfast & Brunch;F	373
Taqueria Habanero	Restaurant	209
The Hall CP	Restaurant	131
Blaze Pizza	Restaurant	109
Camden NoMa Apar	Apartment	96
London Chop House	Restaurant	90
"China Buffet"	Buffets;Restaurants;S	76
Five Guys	Restaurant	72
The Bartlett	Apartment	71



What are the top 10 businesses with the most business stars?

CREATE VIEW top_10_bus_with_most_stars AS
SELECT TOP 20 b.busName AS 'Business Name', b.busCategories AS 'Business Category', b.busStars AS
'Stars'

FROM BUSINESS_T b

GROUP BY b.busStars, b.busCategories, b.busName

ORDER BY b.busStars DESC;



"My Fitness World"	Active Life;Fitness &	5
"KS Audio Video"	Home Services,Tele	5
"Septic Pumping Se	Septic Services,Hom	5
"Duck Donuts"	Breakfast & Brunch;F	4.5
Five Guys	Restaurant	4.5
London Chop House	Restaurant	4.5
Ottava via	Restaurant	4.5
Seoul Spice	Restaurant	4.5
Taqueria Habanero	Restaurant	4.5
The Hall CP	Restaurant	4.5
"Dockside Seafood N	Seafood Markets;Foc	4.5
Camden NoMa Apar	Apartment	4.3
The Bennington	Apartment	4
"Zenith Gymnastics"	Gymnastics;Active L	4
*Fairfield Inn & Suite	Hotels;Event Plannir	4
"Tijuana Flats"	Mexican;Food;Resta	4
"Bubbly Nails"	Nail Salons;Beauty 8	4
Blaze Pizza	Restaurant	4
Busboys and Poets	Restaurant	4
Republic	Restaurant	4



What businesses are closed and their location?

CREATE VIEW closed_bus AS
SELECT b.busName AS 'Business Name', b.busCategories AS 'Business Category', b.busStreet AS
'Address', b.busCity AS 'City', b.busState AS 'State'
FROM BUSINESS_T b
WHERE b.busIsOpen = 0;



"Cosmos Cafe"	Sushi Bars;Restaurar	"300 N College St"	Charlotte	NC	28202
"Toast Cafe"	Food;American (Trac	"2429 Hwy 160 W"	Fort Mill	sc	29708
"Tijuana Flats"	Mexican;Food;Resta	"1608 E Blvd"	Charlotte	NC	28203
"Felicitea"	Food;Coffee & Tea;N	"516 E 15th St, Ste 1	Charlotte	NC	28206
"Real Food Charlotte	Restaurants;Vegetari	"2102 South Blvd, #	Charlotte	NC	28203
"By Design"	Home & Garden;Furr	"11812 Carolina Pla	Pineville	NC	28134