



Friday Night Out

--Evanston Liquor License and Restaurant Inspection
MScA 31005 Database Design and Implementation



Contents

- Data source and introduction
- Normalization process
- Table review and EER diagram
- Queries
- Recommendation



Data Source

- Data source: City of Evanston:
<http://www.cityofevanston.org/>
- Tables
 - Business (390 rows)
 - All registered retailing business entities in city of Evanston
 - Liquor License (96 rows)
 - All licensed business entities in city of Evanston
 - Inspections (1125 rows)
 - Ranging from 2014-01-02 to 2016-03-30
 - Frequency: 1~3 times per year per business entity
 - Scores
 - Violation (4333 rows)
 - Violation record associated with each inspection
 - One inspection may leave multiple violation notes
 - Each violation costs 1~5 points

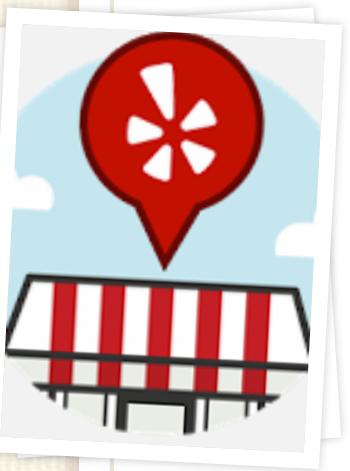


Normalization

- Liquor License Table

BUSINESS NAME	LICENSE NO.	ADDRESS	LICENSE C...	CLASS DESCRIPTION	LONGITUDE	LATITUDE
Century Theatres	11LIQA-0011	1715 MAPLE AVE, EVANSTON, IL...	Class B	Movie Theater	-87.68453114800	42.04896425400
27 Live	12LIQA-0014	1012 CHURCH ST, EVANSTON, IL...	Class C	Hotel or Restaurant/Cor...	-87.68594487400	42.04830554200
Bar Louie	10LIQA-0011	1520 SHERMAN AVE, EVANSTON, IL...	Class C	Hotel or Restaurant/Cor...	-87.68212812200	42.04534003400
BAT 17	11LIQA-0087	1709 BENSON AVE, EVANSTON, IL...	Class C	Hotel or Restaurant/Cor...	-87.68313293500	42.04887865400
Best Western University...	11LIQA-0003	1501 SHERMAN AVE, EVANSTON, IL...	Class C	Hotel or Restaurant/Cor...	-87.68164253900	42.04436910700
Boltwood	14LIQA-0005	804 DAVIS ST, EVANSTON, IL 60201	Class C	Hotel or Restaurant/Cor...	-87.68229202000	42.04675775000
Bravo Cucina Italiana	11LIQA-0006	1701 MAPLE AVE, EVANSTON, IL...	Class C	Hotel or Restaurant/Cor...	-87.68453256800	42.04882466700
Chili's Grill & Bar	11LIQA-0013	1765 MAPLE AVE, EVANSTON, IL...	Class C	Hotel or Restaurant/Cor...	-87.68451995600	42.04981803900
Clarke's	14LIQA-0004	720 CLARK ST, EVANSTON, IL 60201	Class C	Hotel or Restaurant/Cor...	-87.68108293000	42.04968283600

	A	B	C	D	E	F	G	H	I	J
1	business_id	business_name	license_no	license_class	longitude	latitude	address	city	state	postal_code
2	09FOOD-0322	Century Theatre	11LIQA-0011	Class B	-87.68453115	42.04896425	1715 MAPLE AV	EVANSTON	IL	60201
3	11FOOD-0036	27 Live	12LIQA-0014	Class C	-87.68594487	42.04830554	1012 CHURCH S	EVANSTON	IL	60201
4	10FOOD-0022	Bar Louie	10LIQA-0011	Class C	-87.68212812	42.04534003	1520 SHERMAN	EVANSTON	IL	60201
5	09FOOD-0214	BAT 17	11LIQA-0087	Class C	-87.68313294	42.04887865	1709 BENSON A	EVANSTON	IL	60201
6	09FOOD-0101	Best Western Ur	11LIQA-0003	Class C	-87.68164254	42.04436911	1501 SHERMAN	EVANSTON	IL	60201



Normalization

- Liquor License Table

BUSINESS NAME	LICENSE NO.	ADDRESS	LICENSE C...	CLASS DESCRIPTION	LONGITUDE	LATITUDE
Century Theatres	11LIQA-0011	1715 MAPLE AVE, EVANSTON, I...	Class B	Movie Theater	-87.68453114800	42.04896425400
27 Live	12LIQA-0014	1012 CHURCH ST, EVANSTON, ...	Class C	Hotel or Restaurant/Cor...	-87.68594487400	42.04830554200
Bar Louie	10LIQA-0011	1520 SHERMAN AVE, EVANSTO...	Class C	Hotel or Restaurant/Cor...	-87.68212812200	42.04534003400
BAT 17	11LIQA-0087	1709 BENSON AVE, EVANSTON...	Class C	Hotel or Restaurant/Cor...	-87.68313293500	42.04887865400
Best Western University...	11LIQA-0003	1501 SHERMAN AVE, EVANSTO...	Class C	Hotel or Restaurant/Cor...	-87.68164253900	42.04436910700
Boltwood	14LIQA-0005	804 DAVIS ST, EVANSTON, IL 60...	Class C	Hotel or Restaurant/Cor...	-87.68229202000	42.04675775000
Bravo Cucina Italiana	11LIQA-0006	1701 MAPLE AVE, EVANSTON, I...	Class C	Hotel or Restaurant/Cor...	-87.68453256800	42.04882466700

	A	B	C	D	E	F	G	H	I	J
1	business_id	business_name	license_no	license_class	longitude	latitude	address	city	state	postal_code
2	09FOOD-0322	Century Theatre	11LIQA-0011	Class B	-87.68453115	42.04896425	1715 MAPLE AV	EVANSTON	IL	60201
3	11FOOD-0036	27 Live	12LIQA-0014	Class C	-87.68594487	42.04830554	1012 CHURCH S	EVANSTON	IL	60201
4	10FOOD-0022	Bar Louie	10LIQA-0011	Class C	-87.68212812	42.04534003	1520 SHERMAN	EVANSTON	IL	60201
5	09FOOD-0214	BAT 17	11LIQA-0087	Class C	-87.68313294	42.04887865	1709 BENSON A	EVANSTON	IL	60201
6	09FOOD-0101	Best Western Ur	11LIQA-0003	Class C	-87.68164254	42.04436911	1501 SHERMAN	EVANSTON	IL	60201



Normalization

- Liquor License Table -> License Class Table

BUSINESS NAME	LICENSE NO.	ADDRESS	LICENSE C...	CLASS DESCRIPTION	LONGITUDE	LATITUDE
Century Theatres	11LIQA-0011	1715 MAPLE AVE, EVANSTON, IL 60201	Class B	Movie Theater	-87.68453114800	42.04896425400
27 Live	12LIQA-0014	1012 CHURCH ST, EVANSTON, IL 60201	Class C	Hotel or Restaurant/Core Area	-87.68594487400	42.04830554200
Bar Louie	10LIQA-0011	1520 SHERMAN AVE, EVANSTON, IL 60201	Class C	Hotel or Restaurant/Core Area	-87.68212812200	42.04534003400
BAT 17	11LIQA-0087	1709 BENSON AVE, EVANSTON, IL 60201	Class C	Hotel or Restaurant/Core Area	-87.68313293500	42.04887865400
Best Western University Inn	11LIQA-0003	1501 SHERMAN AVE, EVANSTON, IL 60201	Class C	Hotel or Restaurant/Core Area	-87.68164253900	42.04436910700
Boltwood	14LIQA-0005	804 DAVIS ST, EVANSTON, IL 60201	Class C	Hotel or Restaurant/Core Area	-87.68229202000	42.04675775000
Bravo Cucina Italiana	11LIQA-0006	1701 MAPLE AVE, EVANSTON, IL 60201	Class C	Hotel or Restaurant/Core Area	-87.68453256800	42.04882466700
Chili's Grill & Bar	11LIQA-0013	1765 MAPLE AVE, EVANSTON, IL 60201	Class C	Hotel or Restaurant/Core Area	-87.68451995600	42.04981803900

	A	B
1	license_class	class_description
2	Class B	Movie Theater
3	Class C	Hotel or Restaurant/Core Area
4	Class C1	Hotel or Restaurant/Core Area
5	Class D	Restaurant
6	Class E	Package Store
7	Class F	Grocery Store/Liquor
8	Class G	Grocery Store/Beer & Wine only

Normalization

- Inspections Table

business_id	score
08FOOD-0174	98
08FOOD-0174	97
08FOOD-0174	98
08FOOD-0174	100
08FOOD-0174	85
08FOOD-0175	96
08FOOD-0175	87
08FOOD-0175	90
08FOOD-0175	100

date	type
20140820	routine
20140507	routine
20131115	routine
20130122	followup
20130107	routine
20140731	followup
20140725	routine
20140218	routine
20130927	followup

_id	business_id	score	date	type
1	08FOOD-0174	98	20140820	routine
2	08FOOD-0174	97	20140507	routine
3	08FOOD-0174	98	20131115	routine
4	08FOOD-0174	100	20130122	followup
5	08FOOD-0174	85	20130107	routine
6	08FOOD-0175	96	20140731	followup
7	08FOOD-0175	87	20140725	routine
8	08FOOD-0175	90	20140218	routine





Normalization

- Violation Table

business_id	date	code	description
08FOOD-0174	20140507	(21) FOOD EQUIPMENT AND ...	Quaternary ammonia / Chlorine...
08FOOD-0174	20140507	(29) PLUMBING: Installed, main...	Observed dishwasher spray sin...
08FOOD-0174	20140507	(42) OTHER OPERATIONS: Pr...	Observed paper products napki...
08FOOD-0174	20140820	(14) FOOD EQUIPMENT AND ...	Observed portable cutting board...
08FOOD-0175	20140218	(2) FOOD: Original Container; p...	Sugar container is not labeled. L...
08FOOD-0175	20140218	(8) CROSS CONTAMINATION: ...	Cheese is stacked too high in pr...
08FOOD-0175	20140218	(12) PERSONNEL: Hands wash...	CRITICAL VIOLATION. Hand s...
08FOOD-0175	20140218	(33) GARBAGE AND REFUSE ...	Outside dumpsters are open. K...

id	business_id	date	code	description
1	08FOOD-0174	20140507	(21) FOOD EQUIPMENT AND ...	Quaternary ammonia / Chlorine...
2	08FOOD-0174	20140507	(29) PLUMBING: Installed, main...	Observed dishwasher spray sin...
3	08FOOD-0174	20140507	(42) OTHER OPERATIONS: Pr...	Observed paper products napki...
4	08FOOD-0174	20140820	(14) FOOD EQUIPMENT AND ...	Observed portable cutting board...
5	08FOOD-0175	20140218	(2) FOOD: Original Container; p...	Sugar container is not labeled. L...
6	08FOOD-0175	20140218	(8) CROSS CONTAMINATION: ...	Cheese is stacked too high in pr...
7	08FOOD-0175	20140218	(12) PERSONNEL: Hands wash...	CRITICAL VIOLATION. Hand s...
8	08FOOD-0175	20140218	(33) GARBAGE AND REFUSE ...	Outside dumpsters are open. K...



Normalization

- Violation Table -> Violation Codes Table

business_id	date	code	description
08FOOD-0174	20140507	(21) FOOD EQUIPMENT AND ...	Quaternary ammonia / Chlorine...
08FOOD-0174	20140507	(29) PLUMBING: Installed, main...	Observed dishwasher spray sink...
08FOOD-0174	20140507	(42) OTHER OPERATIONS: Pr...	Observed paper products napki...
08FOOD-0174	20140820	(14) FOOD EQUIPMENT AND ...	Observed portable cutting board...
08FOOD-0175	20140218	(2) FOOD: Original Container; p...	Sugar container is not labeled. L...
08FOOD-0175	20140218	(8) CROSS CONTAMINATION: ...	Cheese is stacked too high in pr...
08FOOD-0175	20140218	(12) PERSONNEL: Hands wash...	CRITICAL VIOLATION. Hand s...
08FOOD-0175	20140218	(33) GARBAGE AND REFUSE ...	Outside dumpsters are open. K...

A	B	C	D	E	F	G	H
1	violation_record	business_idno	date	code	violation_description		
2	1	08FOOD-0174	20140507	21	Quaternary ammonia / Chlorine / Iodine		
3	2	08FOOD-0174	20140507	29	Observed dishwasher spray sink waste drain to be i		
4	3	08FOOD-0174	20140507	42	Observed paper products napkins, paper towels stor		
5	4	08FOOD-0174	20140820	14	Observed portable cutting boards to be soiled with d		
6	5	08FOOD-0175	20140218	2	Sugar container is not labeled. Label.		
7	6	08FOOD-0175	20140218	8	Cheese is stacked too high in prep cooler. Store che		

A	B	C
1	code	violation_category
2	1	FOOD
3	10	CROSS CONTAMINATION
4	12	PERSONNEL
5	13	PERSONNEL



Normalization

- Violation Table -> Violation Codes Table

business_id	date	code	description
08FOOD-0174	20140507	(21) FOOD EQUIPMENT AND ...	Quaternary ammonia / Chlorine...
08FOOD-0174	20140507	(29) PLUMBING: Installed, main...	Observed dishwasher spray sink...
08FOOD-0174	20140507	(42) OTHER OPERATIONS: Pr...	Observed paper products napki...
08FOOD-0174	20140820	(14) FOOD EQUIPMENT AND ...	Observed portable cutting board...
08FOOD-0175	20140218	(2) FOOD: Original Container; p...	Sugar container is not labeled. L...
08FOOD-0175	20140218	(8) CROSS CONTAMINATION: ...	Cheese is stacked too high in pr...
08FOOD-0175	20140218	(12) PERSONNEL: Hands wash...	CRITICAL VIOLATION. Hand s...
08FOOD-0175	20140218	(33) GARBAGE AND REFUSE ...	Outside dumpsters are open. K...

	A	B	C	D	E	F	G	H
1	violation	business_idno	date	code	criticalViolation	violation_description		
2		1 08FOOD-0174	20140507	21 N		Quaternary ammonia / Chlorine / Iodine		
3		2 08FOOD-0174	20140507	29 N		Observed dishwasher spray sink waste drain to be i		
4		3 08FOOD-0174	20140507	42 N		Observed paper products napkins, paper towels stor		
5		4 08FOOD-0174	20140820	14 N		Observed portable cutting boards to be soiled with d		
6		5 08FOOD-0175	20140218	2 N		Sugar container is not labeled. Label.		
7		6 08FOOD-0175	20140218	8 N		Cheese is stacked too high in prep cooler. Store che		
8		7 08FOOD-0175	20140218	12 Y		Hand soap is not available at the hand wash sink. S		
9		8 08FOOD-0175	20140218	33 N		Outside dumpsters are open. Keep lids closed to avo		



Table Spec After Normalization

- Business
 - 8 columns, 390 rows
- Liquor&BusinessId
 - 11 columns, 96 rows
- Inspections
 - 5 columns, 1125 rows
- Violation Records
 - 6 columns, 4333 rows
- Violation Codes
 - 3 columns, 44 rows
- License Class
 - 2 columns, 22 rows

Table-business

Field	Type	Null	Key	Description	Data Sample
business_id	varchar(15)	NO	PK	Unique identifier for the business. For many cities, this may be the license number.	08FOOD-0174
business_name	varchar(50)	YES		Common name of the business.	Bravo! Cucina Italiana
address	varchar(50)	YES		Street address of the business.	1701 MAPLE AVE
city	varchar(10)	YES		City of the business.	Evanston
state	char(2)	YES		State or province for the business.	IL
postal_code	varchar(5)	YES		Zip code or other postal code.	60201
latitude	decimal(10,8)	YES		Latitude of the business.	42.04882467
longitude	decimal(10,8)	YES		Longitude of the business.	-87.68453257

Result Grid		Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:	
		business_id	business_name	address	city	state	postal_code	latitude	longitude
▶	08FOOD-0174	Bravo! Cucina Italiana		1701 MAPLE AVE	Evanston	IL	60201	42.04882467	-87.68453257
	08FOOD-0175	Dunkin' Donuts Baskin-Robbins		1900 DEMPSTER ST D	Evanston	IL	60202	42.04062910	-87.69976514
	08FOOD-0177	Mandarin House		819 NOYES ST	Evanston	IL	60201	42.05861048	-87.68271242
	08FOOD-0180	Dunkin' Donuts		1612 BENSON AVE	Evanston	IL	60201	42.04783502	-87.68368590
	08FOOD-0181	Dunkin' Donuts & Baskin-Robbins		2658 GREEN BAY RD	Evanston	IL	60201	42.06601809	-87.70048656
	08FOOD-0184	Ted's Snack Shop		1824 CRAIN ST	Evanston	IL	60202	42.03908986	-87.69899383
	08FOOD-0189	Old Neighborhood Grill		2902 CENTRAL ST	Evanston	IL	60201	42.06430283	-87.71476132
	09FOOD-0007	Oakton & Dodge Shell		500 DODGE AVE	Evanston	IL	60202	42.02696146	-87.69988442

Table-Inspections

Field	Type	Null	Key	Description	Data Sample
inspection_id	INT(4)	NO	PK	Unique identifier for the inspection.	1
business_id	varchar(15)	YES	FK	Unique identifier of the business for which this inspection was done.	08FOOD
score	INT(3)	YES		Inspection score on a 0-100 scale. 100 is the highest score.	-0174
date	DATE	YES		Date of the inspection in YYYYMMDD format.	100
type	varchar(10)	YES		String representing the type of inspection. Must be one of: routine, followup.	20150407

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Fetch rows: |

	inspection_id	business_id	score	date	type
▶	1	08FOOD-0174	100	2015-04-07	routine
	2	08FOOD-0174	100	2014-12-01	routine
	3	08FOOD-0174	98	2014-08-20	routine
	4	08FOOD-0174	97	2014-05-07	routine
	5	08FOOD-0175	90	2015-01-15	routine
	6	08FOOD-0175	96	2014-07-31	followup

Table-License_class

Field	Type	Null	Key	Description	Data Sample
LICENSE_CLASS	varchar(10)	NO	PK	Describes the license class.	Class B
CLASS DESCRIPTION	varchar(50)	YES		Describes the details for class description.	Movie Theater

Result Grid		Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
	license_class	class_description			
▶	Class B	Movie Theater			
	Class C	Hotel or Restaurant/Core Area			
	Class C1	Hotel or Restaurant/Core Area			
	Class D	Restaurant			
	Class E	Package Store			
	Class F	Grocery Store/Liquor			

Table-Liquor&business_id

Field	Type	Null	Key	Description	Data Sample
business_id	varchar(15)	YES	FK	Unique identifier for the business.	09FOOD-0322
business_name	varchar(50)	YES		Name of the business applying for the license.	Century Theatres
license_no	varchar(15)	NO	PK	Unique identifier for the license.	11LIQA-0011
license_class	varchar(10)	YES	FK	Describes the license class	Class B
longitude	decimal(10,8)	YES		Longitude of the business.	-87.6845
latitude	decimal(10,8)	YES		Latitude of the business.	42.04896
address	varchar(50)	YES		Street address of the business.	1715 MAPLE AVE
city	varchar(10)	YES		City of the business.	EVANSTON
state	char(2)	YES		State or province for the business.	IL
postal_code	varchar(5)	YES		Zip code or other postal code.	60201

Result Grid										
		Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:		
	business_id	business_name	license_no	license_class	longitude	latitude	address	city	state	postal_code
▶	09FOOD-0364	Dixie Kitchen & Bait Shop	10LIQA-0004	Class D	-87.68285713	42.04861582	825 CHURCH ST	EVANSTON	IL	60201
	09FOOD-0314	Osco Drug #3487	10LIQA-0005	Class F	-87.70799439	42.02082206	2485 HOWARD ST	EVANSTON	IL	60202
	09FOOD-0121	Osco Drug #3428	10LIQA-0006	Class F	-87.68070340	42.03916911	1128 CHICAGO AVE	EVANSTON	IL	60202
	09FOOD-0373	Evanston Post #42-American Legion	10LIQA-0007	Class S	-87.68612253	42.06286883	1030 CENTRAL ST	EVANSTON	IL	60201
	09FOOD-0335	Tapas Barcelona	10LIQA-0009	Class D	-87.67918625	42.04664490	1615 CHICAGO AVE	EVANSTON	IL	60201
	09FOOD-0371	Hilton Garden Inn	10LIQA-0010	Class C	-87.68504800	42.05071688	1818 MAPLE AVE	EVANSTON	IL	60201
	10FOOD-0022	Bar Louie	10LIQA-0011	Class C	-87.68212812	42.04534003	1520 SHERMAN AVE	EVANSTON	IL	60201

Table-Violation_codes

Field	Type	Null	Key	Description	Data Sample
code	INT(2)	NO	PK	Code for the violation.	Code for the violation.
violation_category	VARCHAR(50)	YES		Describes the violation category.	FOOD
violation_details	VARCHAR(200)	YES		Describes the details for violation.	Source: wholesome; no spoilage

The screenshot shows a MySQL Workbench result grid with the following data:

	code	violation_category	violation_details
▶	1	FOOD	Source: wholesome; no spoilage
	2	FOOD	Original Container; properly labeled.
	3	FOOD PROTECTION	Potentially hazardous food meets temperature ...
	4	FOOD PROTECTION	Facilities to maintain product temperature.
	5	FOOD PROTECTION	Thermometers provided and conspicuous
	6	FOOD PROTECTION	Potentially hazardous food properly thawed.

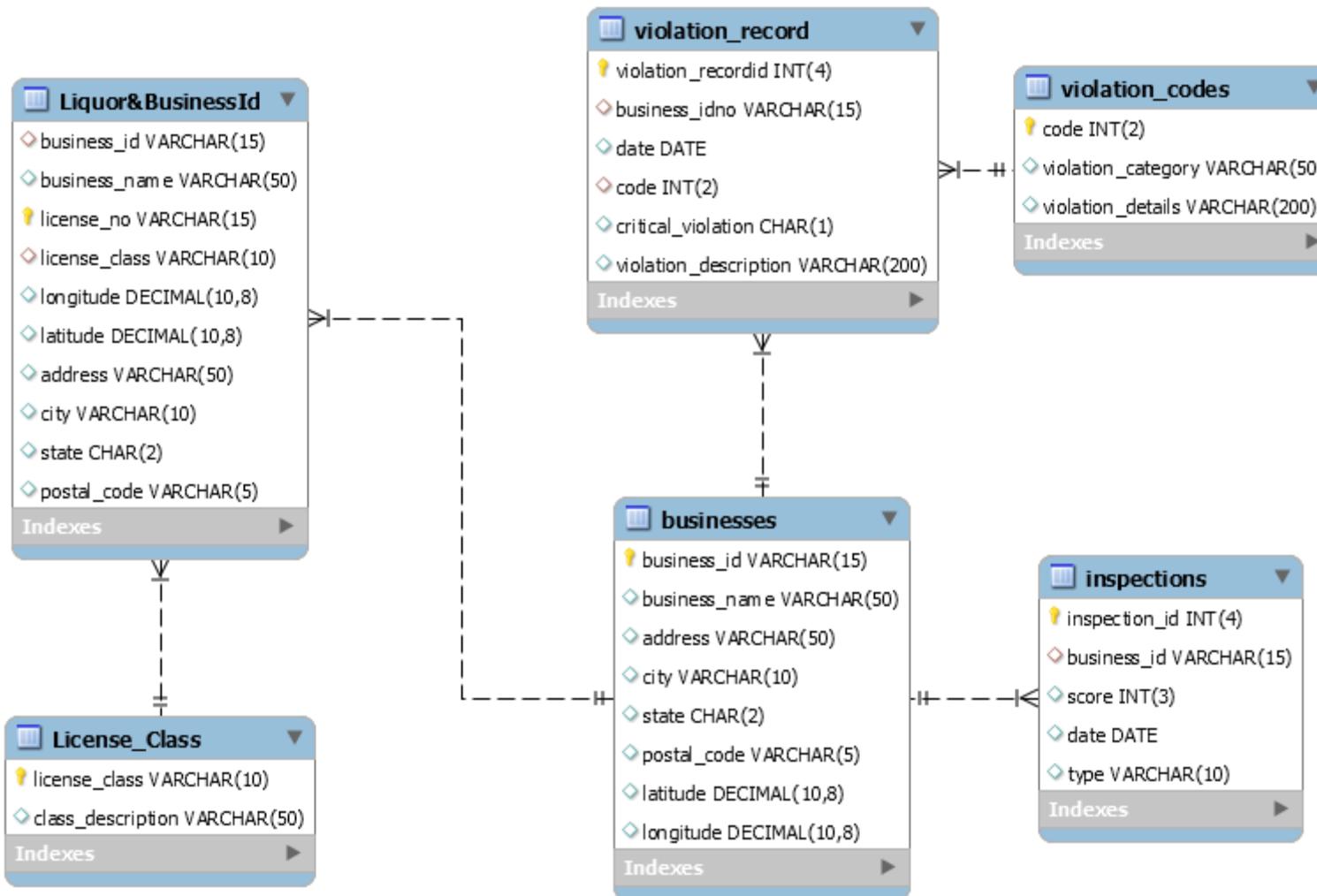
Table-Violation_record

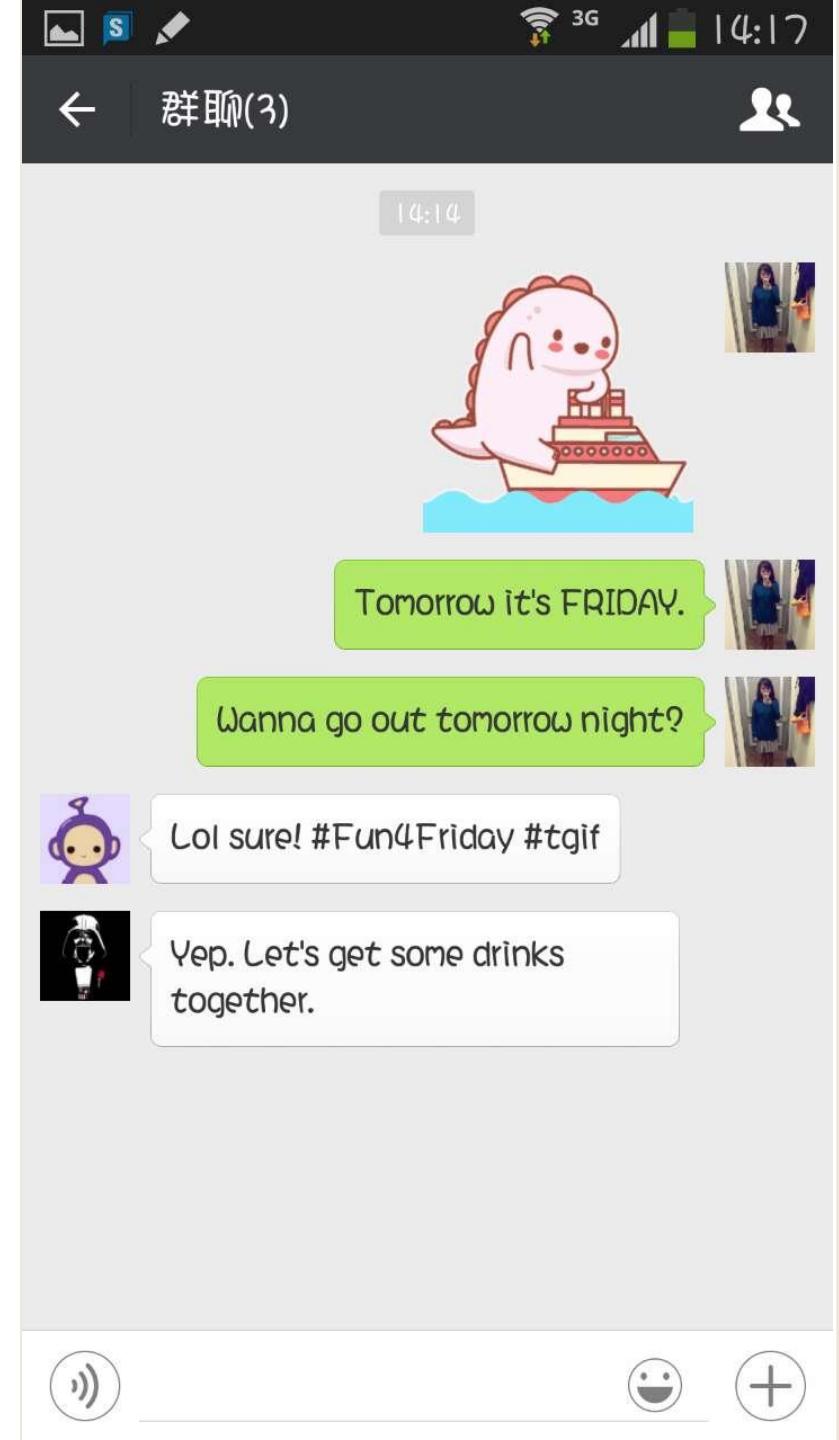
Field	Type	Null	Key	Description	Data Sample
violation_recordid	INT(4)	NO	PK	Unique identifier for the violation_record.	1
business_idno	varchar(5)	YES	FK	Unique identifier of the business for which this violation applies.	08FOOD-0174
date	date	YES		Date of violation in YYYYMMDD format. This should correspond with the related inspection.	20140507
code	INT(2)	YES	FK	Code for the violation.	21
criticalViolation	char(1)	YES		Describes whether the violation is critical.	N
violation_description	varchar(200)	YES		Describes the details for violation.	Quaternary ammonia / Chlorine / Iodine

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Fetch rows: |

	violation_recordid	business_idno	date	code	criticalViolation	violation_description
▶	1	08FOOD-0174	2014-05-07	21	N	Quaternary ammonia / Chlorine / Iodine
	2	08FOOD-0174	2014-05-07	29	N	Observed dishwasher spray sink waste drain to ...
	3	08FOOD-0174	2014-05-07	42	N	Observed paper products napkins, paper towel...
	4	08FOOD-0174	2014-08-20	14	N	Observed portable cutting boards to be soiled ...
	5	08FOOD-0175	2014-02-18	2	N	Sugar container is not labeled. Label.
	6	08FOOD-0175	2014-02-18	8	N	Cheese is stacked too high in prep cooler. Store...

Database EER model





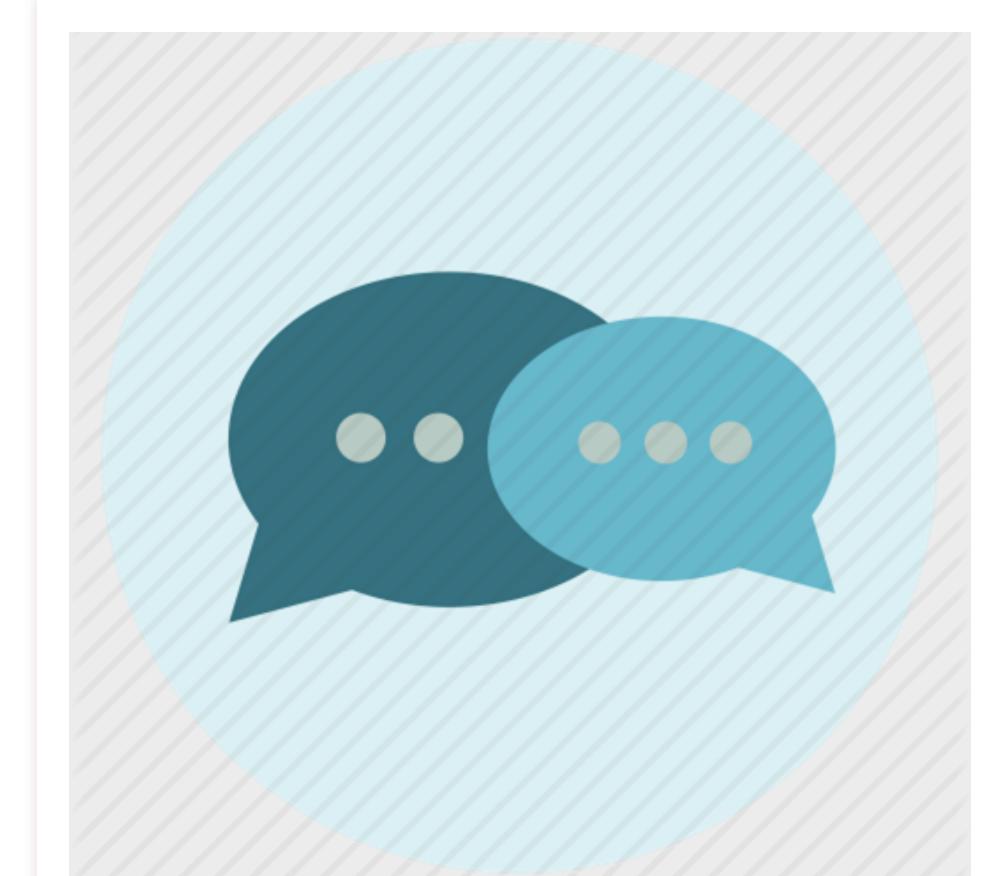


a. Produce a list from one table: -- Businesses with liquor licenses

```
SELECT business_name,  
       CONCAT(address," ",city) AS Address  
FROM Liquor_BusinessId  
ORDER BY Address;
```

	business_name	Address
▶	That Little Mexican Caf?	1010 CHURCH ST EVANSTON
	27 Live	1012 CHURCH ST EVANSTON
	Thai Sookdee	1016 CHURCH ST EVANSTON
	Evanston 1st Liquors	1019 DAVIS ST EVANSTON
	Evanston Post #42-American Legion	1030 CENTRAL ST EVANSTON
	Whole Foods Market	1111 CHICAGO AVE EVANSTON
	Osco Drug #3428	1128 CHICAGO AVE EVANSTON

(96 Row(s) returned)



3G 14:21

群聊(3)

Tomorrow it's FRIDAY.

Wanna go out tomorrow night?

Lol sure! #Fun4Friday #tgif

Yep. Let's get some drinks together.

14:19

WholeFoods huh? Bar or Dining!

I will take purple line. Shall we go somewhere on Main St?

#Drunk@Walgreens #CTAHome2

+

Smiley face icon

Speaker icon

Photo icon

S icon



b. A query with multiple conditions:

-- Restaurants with liquor licenses on Main St

```
SELECT business_name,  
       CONCAT(address, " ", city) AS Address  
  FROM Liquor_BusinessId lb JOIN License_Class lc  
    ON lb.license_class = lc.license_class  
 WHERE lc.class_description LIKE '%Restaurant%'  
   AND address LIKE '%Main%'  
 ORDER BY address;
```

	business_name	Address
▶	S-Paragon	503 MAIN ST EVANSTON
	Oceanique Restaurant	505 MAIN ST EVANSTON
	Kuni's Japanese Restaurant	511 MAIN ST EVANSTON
	The Lucky Platter	514 MAIN ST EVANSTON
	Lupita's Mexican Restaurant	700 MAIN ST EVANSTON

(6 Row(s) returned)



3G 14:25

群聊(3)

I will take purple line. Shall we go somewhere on Main St?

#Drunk@Walgreens #CTAHome2



We are down to 6 places.

Any preferences?

I want somewhere clean. It would be great if it's been inspected.

#IDontCare 😊





c. A query links 2 tables: --Restaurants' latest inspection score

```
SELECT business_name, address, MAX(date) AS Date, score
FROM inspections i
    JOIN Liquor_BusinessId lb
        ON i.business_id = lb.business_id
    JOIN License_Class lc
        ON lb.license_class = lc.license_class
WHERE Date > 20150101
    AND class_description LIKE '%Restaurant%'
    AND address LIKE '%Main%'
GROUP BY i.business_id
ORDER BY score DESC;
```

	business_name	address	Date	score
▶	Oceanique Restaurant	505 MAIN ST	2015-04-28	100
	Lupita's Mexican Restaurant	700 MAIN ST	2015-04-28	99
	Trattoria D.O.C.	706 MAIN ST	2015-03-17	98
	Kuni's Japanese Restaurant	511 MAIN ST	2015-03-20	97

(6 Row(s) returned)



群聊(3)



Any preferences?



I want somewhere clean. It would be great if it's been inspected.



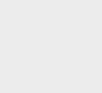
#IDontCare



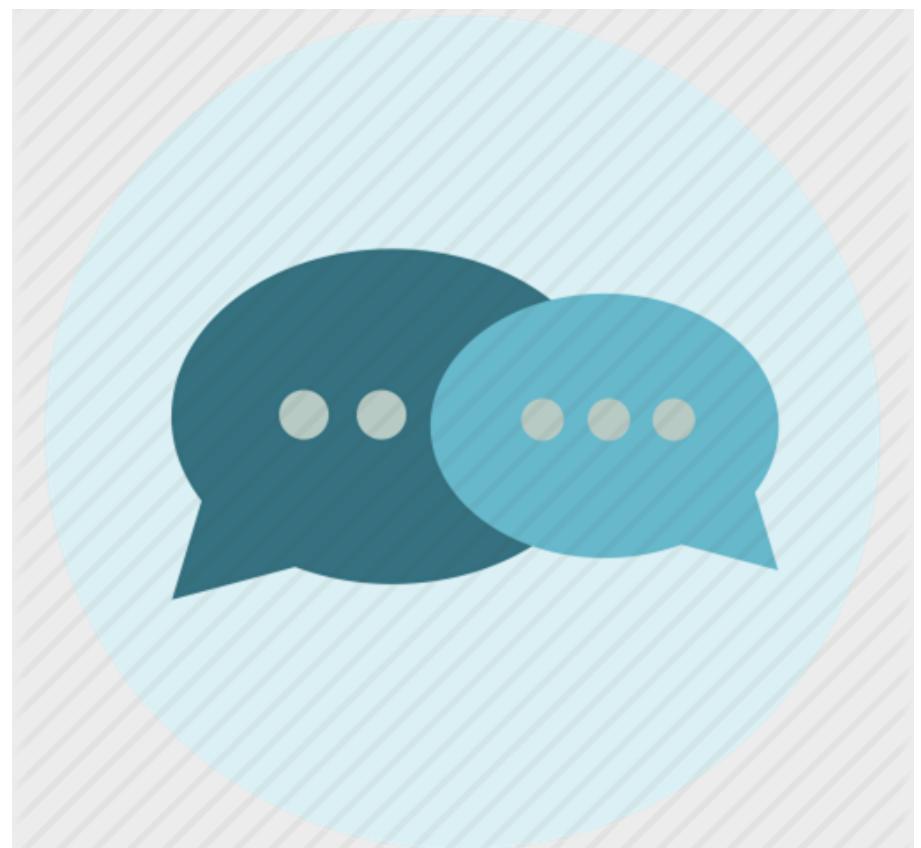
Tbh isn't it sufficient to just look at online reviews?
#LoveYelpReview
#WhyInspection
#GiveMyTaxBack



Get an critical violation record for you. You cant believe it until you see it.



Guys. Be nice to each other please~~~~~



d. A query links multiple tables:

-- Critical violation details of Restaurants with inspection scores

```

SELECT business_name, i.date, score,
       criticalViolation, violation_description
FROM businesses b
      JOIN inspections i
            ON b.business_id = i.business_id
      JOIN violation_record vr
            ON b.business_id = business_idno
      JOIN violation_codes vc
            ON vc.code = vr.code
WHERE score < 75
      AND ( violation_category LIKE '%INSECT%'
            OR violation_category LIKE '%FOOD%' )
      AND ( i.date > '2015-01-01' )
      AND criticalViolation = 'Y'
ORDER BY score;
    
```

	business_name	date	score	critical_violation	violation_description
▶	Feast and Imbibe	2015-01-12	68	Y	Vacuum packaging of meats and seafood at the facility. A HACCP plan submitte...
	Feast and Imbibe	2015-01-12	68	Y	7chicken breasts and milk stored outside temperature regulation. A quarter of ...
	Union Pizzeria	2015-04-13	70	Y	Shelled eggs stored above ready to eat foods. Raw animal products shall be st...
	Union Pizzeria	2015-04-13	70	Y	Quaternary ammonia / Chlorine / Iodine Improper set up of the three compart...
	Papa Romeo's Pizza	2015-04-09	72	Y	The prep, reach-in cooler is reading 53F. Since its the beginning of the shift all t...

(19 Row(s) returned)





群聊(3)



look at online reviews?
#LoveYelpReview
#WhyInspection
#GiveMyTaxBack



Get an critical violation
record for you. You cant believe
it until you see it.



Guys. Be nice to each other
please~~~~~



Hey, I found a new bar on Main
St in Evanston.



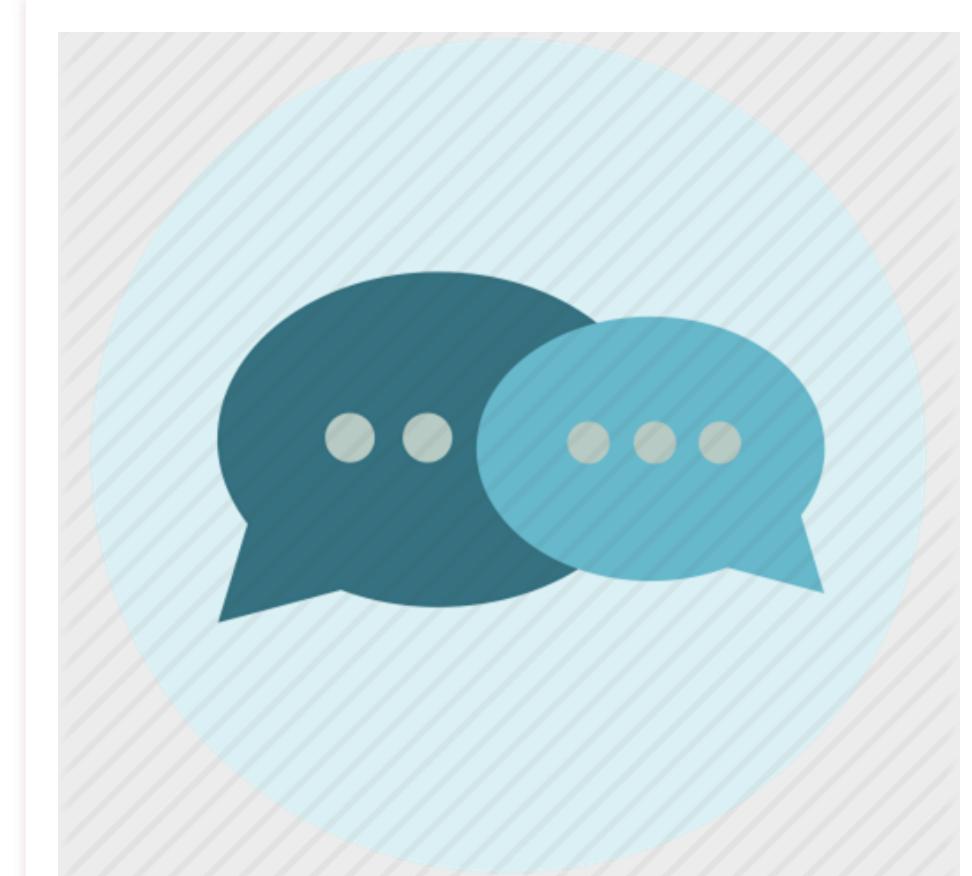
It's not on the list.



We need to update the
database.



#WorkingOnIt 💪



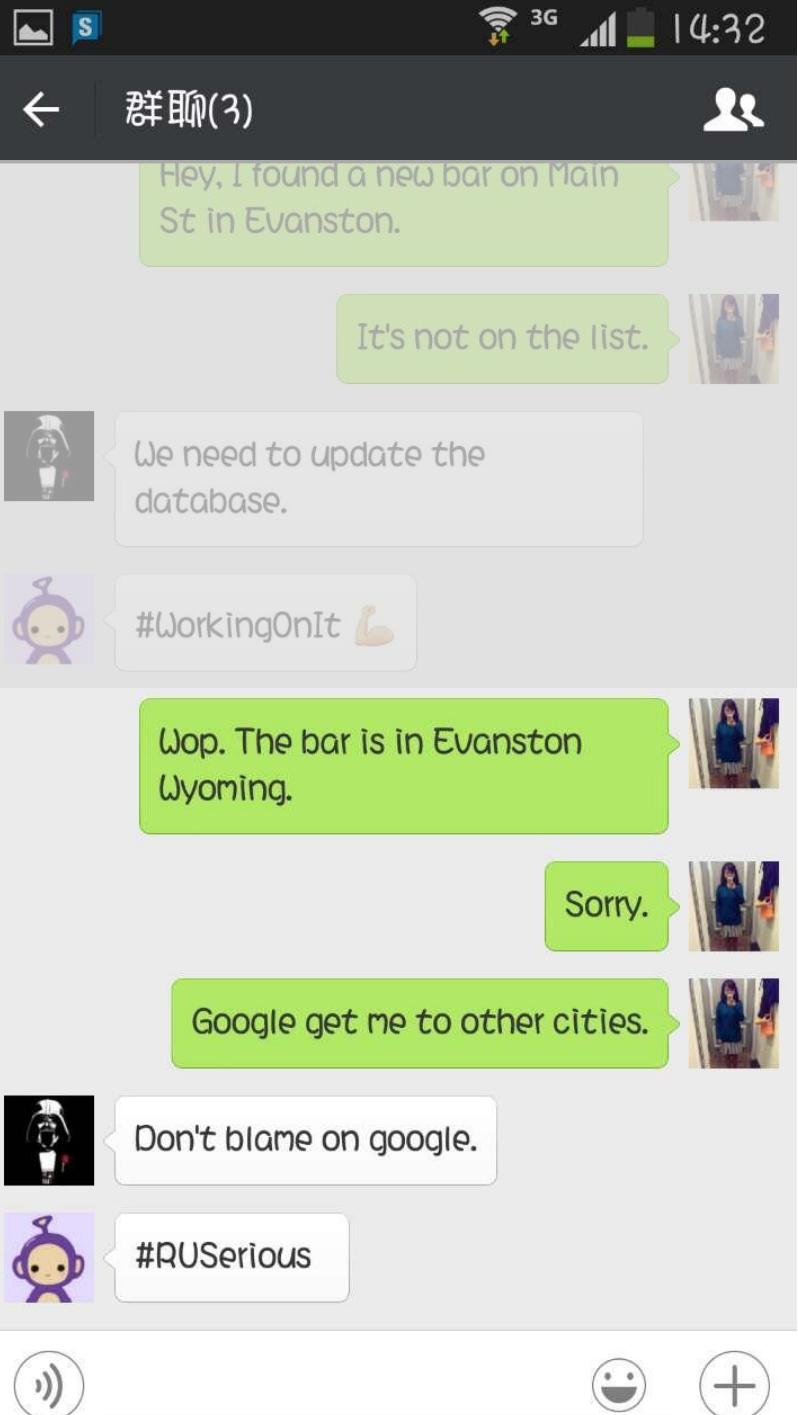


e. Inserts data into a table: -- Insert Betty Bar to business table

```
INSERT INTO businesses
VALUES ("09FOOD-9999", "Betty Bar", "9999 MAIN ST",
        "EVANSTON", "IL", "60201", "42.0543", "87.6837");
```

	business_id	business_name	address	city	state	postal_code	latitude	longitude
▶	09FOOD-0264	Gamma Phi Beta	640 EMERSON ST	Evanston	IL	60201	42.05194706	-87.67944548
	09FOOD-0268	Pi Beta Phi	636 EMERSON ST	Evanston	IL	60201	42.05194050	-87.67901711
	09FOOD-9999	Betty Bar	9999 MAIN ST	EVANSTON	IL	60201	42.05430000	87.68370000

(1 Row(s) affected)





f. Removes some data from a table: --Delete Betty Bar from business table

```
DELETE FROM businesses  
WHERE business_id = '09FOOD-9999';
```

	business_id	business_name	address	city	state	postal_code	latitude	longitude
▶	09FOOD-0264	Gamma Phi Beta	640 EMERSON ST	Evanston	IL	60201	42.05194706	-87.67944548
	09FOOD-0268	Pi Beta Phi	636 EMERSON ST	Evanston	IL	60201	42.05194050	-87.67901711
	12FOOD-0042	Zeta Beta Tau Fraternity	2251 SHERIDAN RD	Evanston	IL	60208	42.05905658	-87.67641757

(1 Row(s) affected)



3G 14:37

群聊(3)

Sorry.

Google get me to other cities.

Don't blame on google.

#RUSerious

We are almost done.

Let's do a finally rolling call.

Show everything we need. Then let's decide where to go.

Yeah. Let's do it.

#MakeSomeNoise

Beer, Wine, Martini, Party Animal, Party Hat, Confetti

Backspace, Smiley Face, Plus

This is a screenshot of a mobile messaging application showing a group chat interface. The top status bar indicates signal strength, battery level, and the time (14:37). The title bar shows "群聊(3)" (Group Chat (3)). The message list contains several messages from different users, each accompanied by a small profile picture or emoji. The messages are color-coded: green for most users and white for the user whose profile picture is a purple monkey. The messages include: "Sorry.", "Google get me to other cities.", "Don't blame on google.", "#RUSerious", "We are almost done.", "Let's do a finally rolling call.", "Show everything we need. Then let's decide where to go.", "Yeah. Let's do it.", and "#MakeSomeNoise". Below the messages are icons for backspace, smiley face, and a plus sign.

g. A query links all tables: -- Ideal Restaurants with inspection history

```

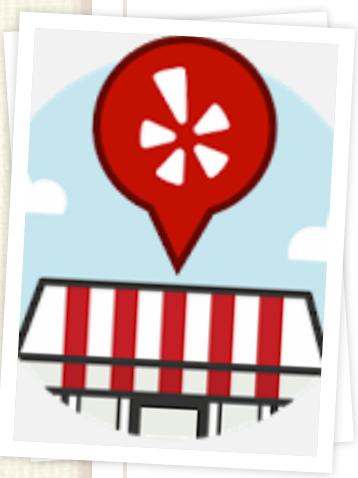
SELECT b.business_name, b.address, lb.license_no,
       lc.class_description, MAX(i.date) AS last_inspect_date,
       MIN(score) AS MIN_score, MAX(score) AS Max_score,
       MAX(criticalViolation) AS critical_vio_hist, vc.violation_category AS violation_ex
  FROM businesses b
    JOIN Liquor_BusinessId lb
      ON b.business_id = lb.business_id
    JOIN inspections i
      ON b.business_id = i.business_id
    JOIN License_Class lc
      ON lc.license_class = lb.license_class
    LEFT JOIN violation_record vr
      ON b.business_id = business_idno
    JOIN violation_codes vc
      ON vr.code = vc.code
 WHERE score > 90
   AND (lc.class_description LIKE '%Restaurant%')
   AND (b.address LIKE '%Main%')
 GROUP BY business_name
 ORDER BY MAX_score DESC, MIN_score DESC;

```

	business_name	address	license_no	class_description	last_inspect_date	MIN_score	Max_score	critical_vio_hist	violation_ex
▶	Lupita's	700 MAIN ST	11LIQA-0038	Restaurant	2015-04-28	95	100	N	FOOD EQUIPMENT AND UTENSILS
	Oceanique	505 MAIN ST	11LIQA-0046	Restaurant	2015-04-28	94	100	Y	FOOD EQUIPMENT AND UTENSILS
	Kuni's Japanese Restaurant	511 MAIN ST	11LIQA-0033	Restaurant	2015-03-20	92	100	N	FOOD EQUIPMENT AND UTENSILS
	Siam Paragon	503 MAIN ST	11LIQA-0059	Restaurant	2014-11-14	92	99	Y	FOOD PROTECTION
	Trattoria D.O.C.	706 MAIN ST	11LIQA-0072	Restaurant	2015-03-17	93	98	Y	LIGHTING
	Lucky Platter	514 MAIN ST	11LIQA-0066	Restaurant	2014-11-10	92	92	Y	FOOD EQUIPMENT AND UTENSILS

(6 Row(s) returned)





Oceanique

★★★★★ 191 reviews [Details](#)

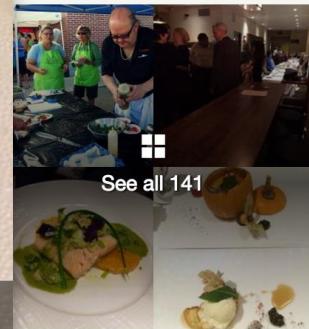
\$\$\$\$ · French, Seafood [Edit](#)



📍 505 Main St
Evanston, IL 60202
b/t Chicago Ave & Hinman Ave
➡️ Get Directions
🚂 Main and 1 more station
📞 (847) 864-3435
💬 Message the business
🔗 oceanique.com



Surprise starter: Arctic char ceviche by Jane W.



[See all 141](#)



"The wine list has a nice variety, not sure if he is a **sommelier**, but he has great knowledge about wine and food paring." in 20 reviews



"The next course was some mixed berry sorbet with blood orange, which was very refreshing and a tasty **palate cleanser**." in 11 reviews



"The had the day and night cake, Layers of Chocolate Mousse, Whipped Cream Chantilly, Chocolate Cake w/Chocolate **Ice Cream**." in 15 reviews



Today 5:30 pm - 9:00 pm **Closed now**



[Full menu](#)

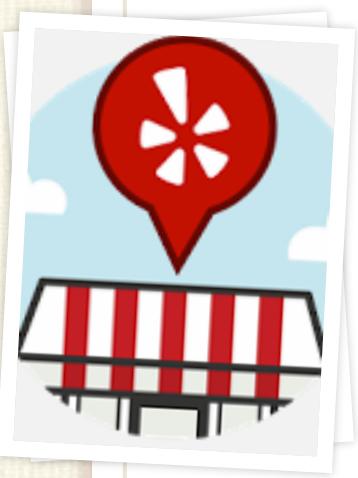


\$\$\$ Price range **Above \$61**



100 **Health inspection** 100 out of 100

Hours



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Near Evanston, IL

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[Oceanique](#) > Health Inspections

Oceanique

April 28, 2015 — Routine Inspection

Violations

- CRITICAL VIOLATION. Renew certified food manager certificate.

Inspections

Date	Inspection Type	Violations	Score
April 28, 2015	Routine	1	100
December 16, 2014	Routine	0	100
August 28, 2014	Routine	0	100
April 30, 2014	Routine	2	94

Health Inspection

100

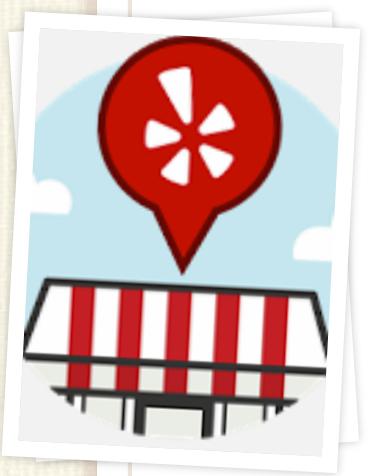
out of 100

About Health Inspections

We collect public inspection data directly from your local health department. Due to the local health department's inspection schedule as well as the time it takes to pass that information on to us, it is possible that we may not display the most recent inspection data.

Please report any health complaints about this business such as potential food borne illnesses or any unreasonable delay and data inaccuracies via one of the methods below:

- [Email](#)
- [Website](#)



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Oceanique > Health Inspections

Oceanique

April 28, 2015 — Routine Inspection

Violations

- CRITICAL VIOLATION. Renew certified food manager certificate.

Inspections

Date	Inspection Type	Violations
April 28, 2015	Routine	
December 16, 2014	Routine	
August 28, 2014	Routine	
April 30, 2014	Routine	2 94

Health Inspection

100
out of 100

Violations: April 30, 2014

- Wiping cloth sanitizer had a high concentration of chlorine at over 200ppm. Please utilize chlorine test kit to make sure sanitation
- CRITICAL VIOLATION. Please cut back waste pipe beneath 3 comp sink, prep sink and dishwasher to allow a 1 inch air gap to prevent back flow. Contact me when complete for quick reinspection.

Please report any health complaints about this business such as potential food borne illnesses or any unreasonable delay and data inaccuracies via one of the methods below:

- Email
- Website



Recommendation

- Data:
 - Cope with Yelp rating, user review key word searching
 - menu
 - other business info
- Database:
 - Keep updating the database, use latest records.
 - Violation record index
 - Business name and license name consolidation
- Analysis:
 - More in depth analysis (inspection frequency, most violated category, health score classification)
 - Data visualization (show on map)

Tomorrow is
FRIDAY



Q&A