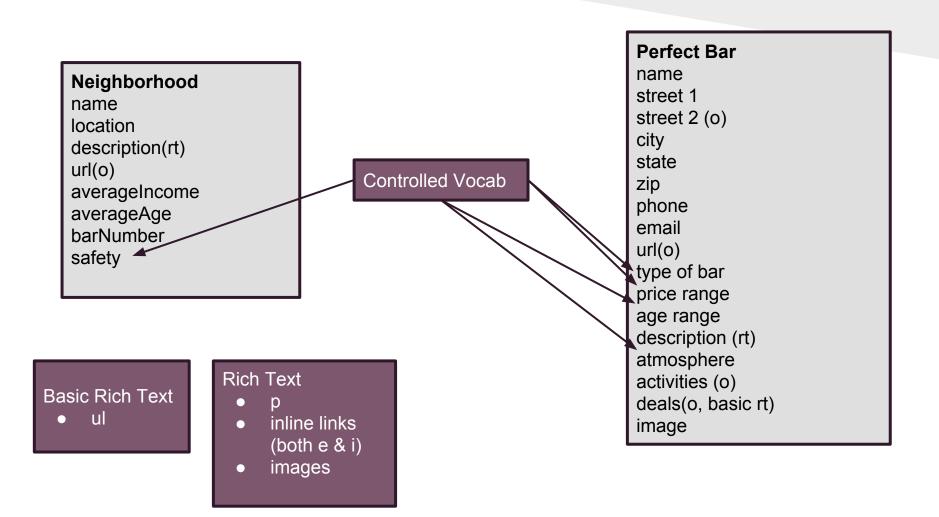
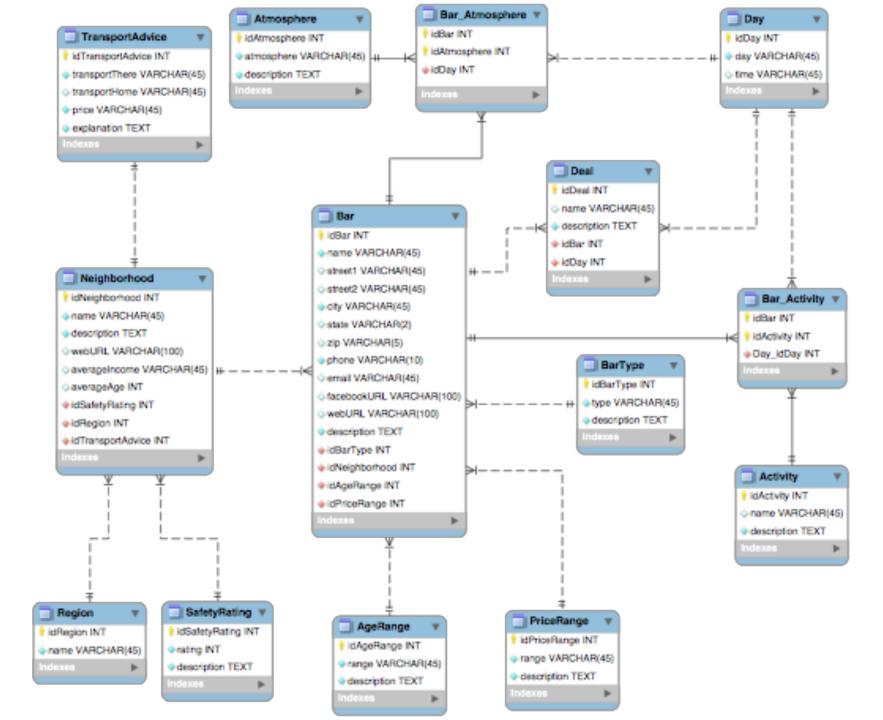
Info Type Model





Access Structures

Info Need:

 What kind of bars are there in my area?

What can I afford?

What do my friends think?

Which bar suits my mood right now?

 Are the people who hang out at this bar like me?

Hierarchy

Index/Sequence

Index/Association

Index

Association

Other bars in with a similar atmosphere in the same neighborhood Neighborhood associated to Bar

Index (Bar)

Name
Type
Atmosphere
Price Range
Age Range
Deal Types
Activity Types
Specials

Info Behavior:

 Ask friends and family their opinion

 Look at rating and info on Yelp- phone or comp

 Check out lots of bar's websites for specials

Visit the bar for one's self

Association

Index

Index (Neighbourhood)

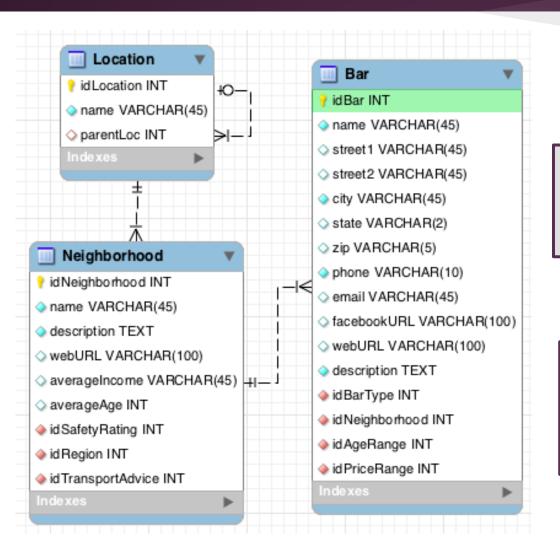
Name Safety

Hierarchy Locations

Sequence

Best deals for you

Location Hierarchy



Query:

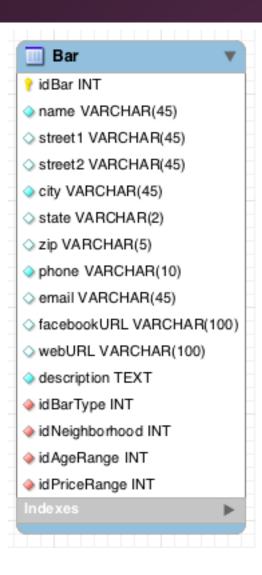
SELECT loc.id, loc.name FROM Location loc WHERE loc.parentLoc IS NULL

Logic:

First, the query is used to find the root location.

Second, recursion is used to find the child levels of location.

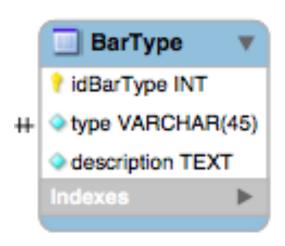
Bar Name Index



Query:

SELECT name FROM Bar ORDER BY name ASC

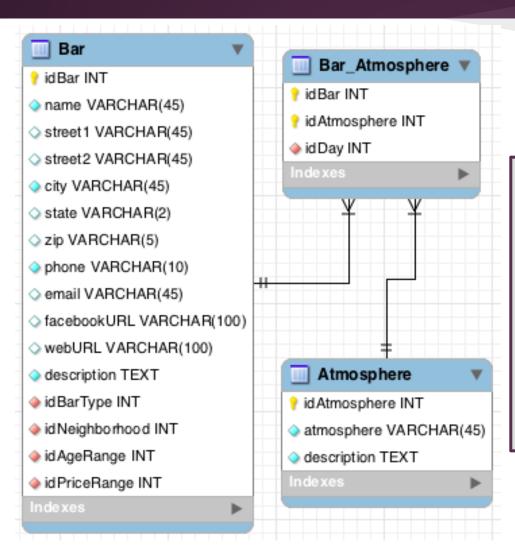
Bar Type Index



Query:

SELECT type FROM BarType ORDER BY type ASC

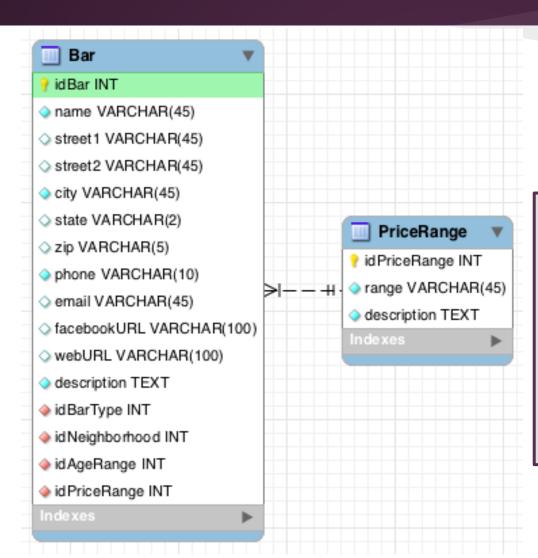
Bar Atmosphere Index



Query:

SELECT DISTINCT Bar.name,
Atmosphere.atmosphere FROM
Bar JOIN Bar_Atmosphere ON
Bar.idBar = Bar_Atmosphere.
idBar JOIN Atmosphere ON
Bar_Atmosphere.idAtmosphere =
Atmosphere.idAtmosphere
ORDER BY Atmosphere.
atmosphere

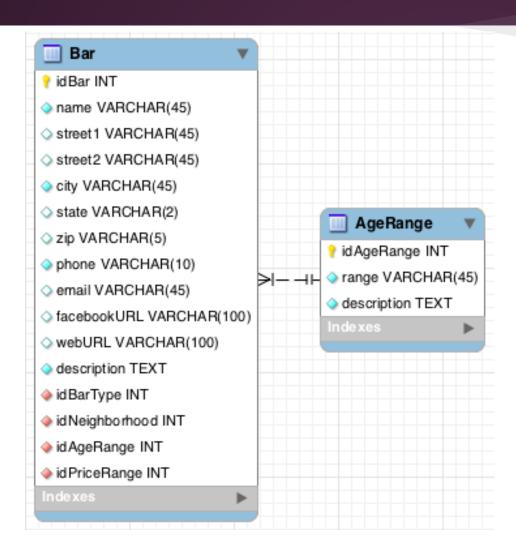
Bar Price Range Index



Query:

SELECT Bar.name,
PriceRange.range FROM
Bar JOIN PriceRange ON
Bar.idPriceRange =
PriceRange.idPriceRange
ORDER BY PriceRange.
range ASC

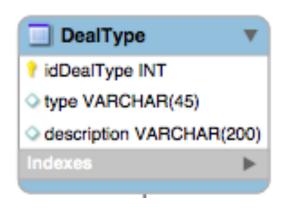
Bar Age Range Index



Query:

SELECT b.name, b.
description, ar.range
FROM Bar b
JOIN AgeRange ar
ON b.idAgeRange = ar.
idAgeRange
ORDER BY ar.range

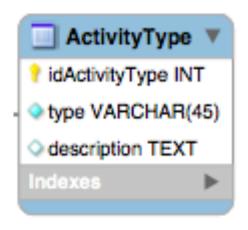
Deal Type Index



Query:

SELECT type FROM DealType ORDER BY type ASC

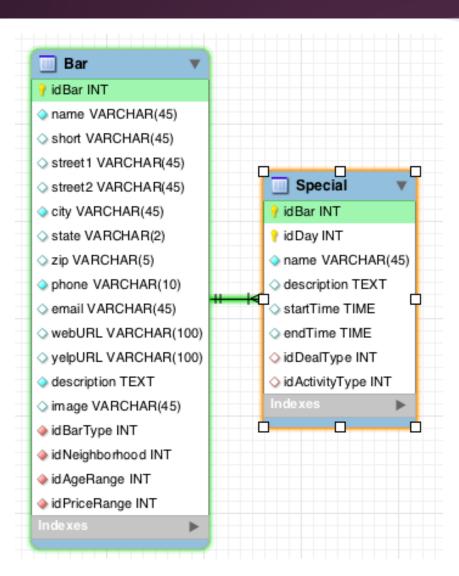
Activity Type Index



Query:

SELECT type FROM ActivityType ORDER BY type ASC

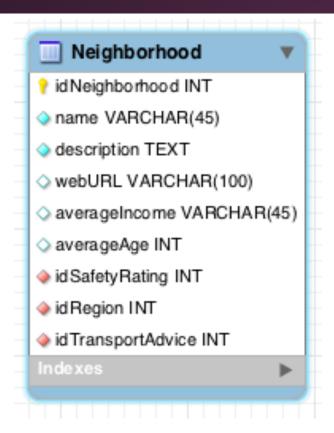
Bar Special Index



Query:

SELECT s.name, s.description, s.startTime, s.endTime
FROM Special s
JOIN Bar b ON s.idBar = b.
idBar
WHERE b.idBar = (input)
ORDER BY s.startTime ASC

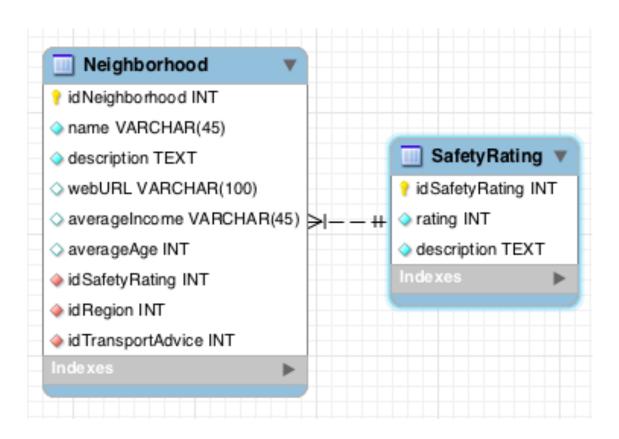
Neighborhood Name Index



Query:

SELECT n.name, n.description FROM Neighborhood n ORDER BY n.name

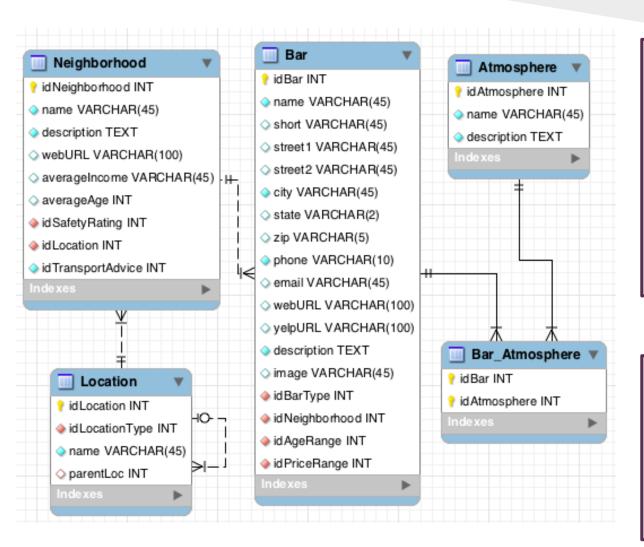
Neighborhood Safety Index



Query:

SELECT b.name, b.street1, b.
street2, b.city, b.state, b.zip, b.
description, sr.rating, sr.
description
FROM Bar b
JOIN SafetyRating sr
ON b.idSafetyRating = sr.
idSafetyRating
ORDER BY sr.rating DESC

Association: Similar location and/or atmosphere?



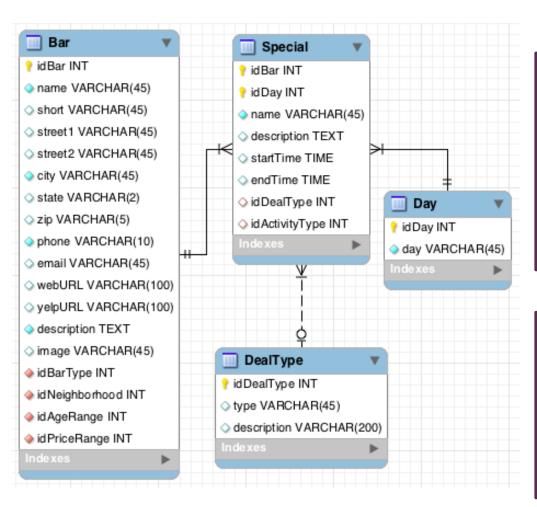
Query:

SELECT b.name, b.street1, b.
street2, b.city, b.state, b.zip, b.
description
FROM Bar b
JOIN Bar_Atmosphere ba
ON b.idBar = ba.idBar
JOIN Atmosphere a
ON ba.idAtmosphere = a.
idAtmosphere
WHERE a.atmosphere = (input)

Query:

SELECT b.name, b.street1, b.
street2, b.description
FROM Bar b
JOIN Neighborhood n
ON n.idNeighborhood = b.
idNeighborhood
WHERE n.name = (input)

Sequence: Deals for you



Query:

SELECT b.street1, b.street2, b.city, b.
state, b.zip, s.name, s.id,s.startTime,
d.day
FROM Speical s
JOIN Bar b
ON s.idBar = b.idBar
JOIN Day d
ON d.idDay = d.idDay
WHERE idDealType IS NOT NULL

Logic:

First, query to get all the deals offered at bars.

Second, order the results accordly. Use the user's location to find bars closest to the user. Use user's device's day of week to find deals that are occurring on that day.

