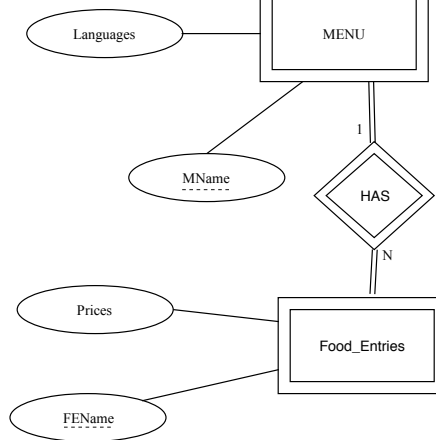


Assumptions:

1. A REVIEW must be written by a USER. A USER may write 0 or more REVIEWS.
2. A RESTAURANT must contain at least 1 MENU, and likewise a MENU must be associated with a RESTAURANT.
3. REVIEWS must have a RESTAURANT, while RESTAURANTS may have 0 or more REVIEWS.
4. Multiple or no USERS may desire one or more RESTAURANTS.
5. A MENU and REVIEWS must depend on RESTAURANT to be uniquely identifiable.
6. REVIEWS additionally depends on USER for unique identification.
7. A USER can have one or no Favorite_Restaurant.
8. Every USER must live in a CITY, and every CITY must contain at least 1 USER or RESTAURANT.
9. A CONTACT or RCONTACT can have an Email and/or a PhoneNumber.
10. A RESTAURANT has at least one HOURS.



USER

<u>UserID</u>	cName	uName
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CITY

<u>cName</u>	cState
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RESTAURANT

<u>rID</u>	<u>cName</u>	rName	rCuisine	rAddress
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REVIEW

<u>UserID</u>	<u>rID</u>	rvRating	rvMessage	rvDate
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MENU

<u>mName</u>	<u>rID</u>	Language
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USER_CONTACT

<u>UserID</u>	U_PhoneNumber	U_Email
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RESTAURANT_CONTACT

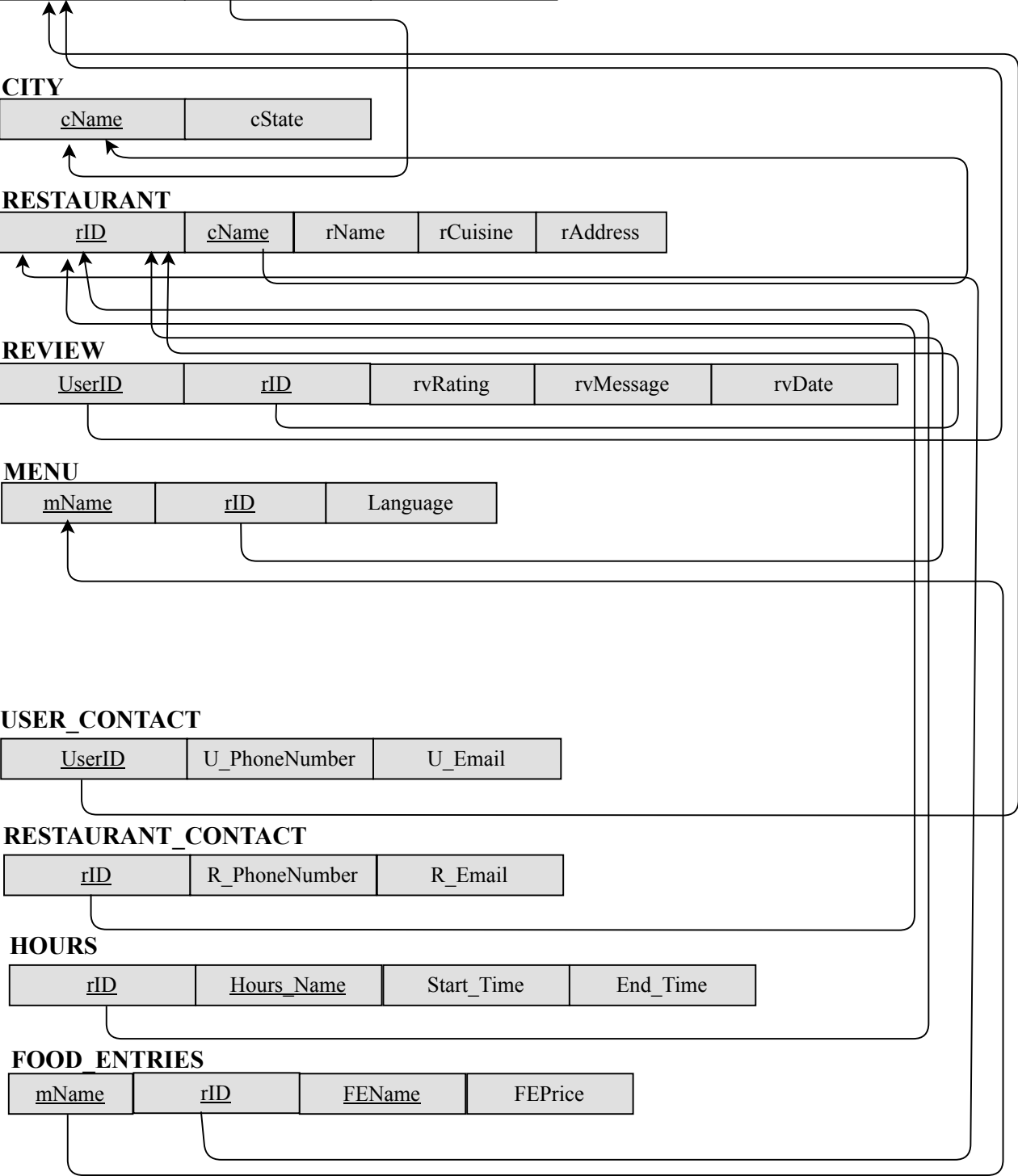
<u>rID</u>	R_PhoneNumber	R_Email
------------	---------------	---------

HOURS

<u>rID</u>	<u>Hours_Name</u>	Start_Time	End_Time
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FOOD_ENTRIES

<u>mName</u>	<u>rID</u>	<u>FEName</u>	FEPrice
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Domain Constraints:

1. All emails are alphanumeric strings up to 20 characters ending with @ domain
2. rAddress is a alphanumeric string up to 100 characters with the format consisting of: street address, state, and zip code.
3. uName, rName, cState, cName, rCuisine, FEName, and mName are alphabetic strings up to 50 characters long.
4. rID is a series of 4-digit single integers from 0-9.
5. Start_Time and End_Time are type DATE.
6. rvRatings are single integers from 1-5 formatted in R/5 (where R = defined integer)
7. rMessage is an alphanumeric string up to 150 characters.
8. mLanguages is a string that must be an officially recognized language.
9. FEPrice is a double following US Pricing conventions (\$dollars.cents).
10. Start_Time has to always be less than End_Time.

Referential Constraints:

1. Every USER must be from a CITY.
2. Every RESTAURANT must BE in a CITY.
3. Every REVIEW must have a USER (who writes it) and RESTAURANT (who is being reviewed).
4. Every USER can have RESTAURANTS that they desire to visit, but have not visited yet.
5. Every RESTAURANT must have at least one MENU.
6. Every MENU can only be associated with one RESTAURANT.
7. A USER_CONTACT must be associated with only one USER.
8. A RESTAURANT_CONTACT must be associated with only one RESTAURANT.

Key Constraints:

1. All primary keys must be unique from one another.

Assumptions:

1. Address attributes only include street address and ZIP code. The CITY and state come from the CITY entity.
2. All emails are assumed to be valid.

PK refers to Primary Key, FK refers to Foreign Key

USER	
PK	<u>uEmail_Address</u>
FK	cName
CITY	
PK	<u>cName</u>
FK	-
RESTAURANT	
PK	<u>rID</u>
FK	cName
USER_CONTACT	
PK	<u>User_ID</u>
FK	-
RESTAURANT_CONTACT	
PK	<u>rID</u>
FK	-

REVIEWS	
PK	<u>UserID + rID</u>
FK	UserID
FK	rID
MENU	
PK	<u>mName + rID</u>
FK	rID
DESIRES	
PK	<u>rID + UserID</u>
FK	rID
FK	UserID
FOOD_ENTRIES	
PK	<u>FEName</u>
FK	rID
FK	mName

HOURS	
PK	<u>rID + Hours_Name</u>
FK	rID