Truck Truck Go

Find your Food Truck

Group 5: Milestone 2

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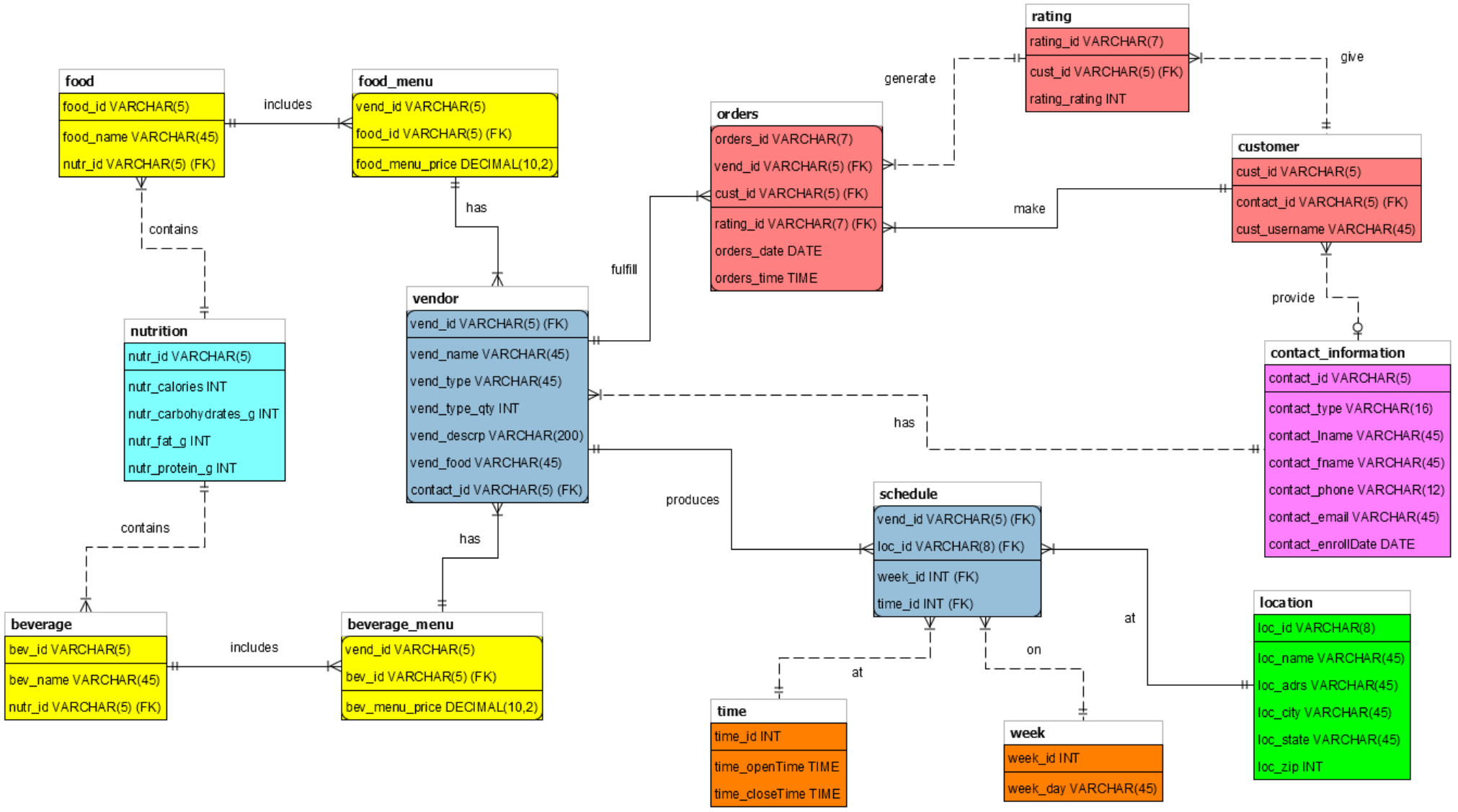
Physical Model ER Diagram



Truck Truck God Business Rules

VENDOR/SCHEDULE

Vendors each have their own description, food category, vendor type – which can either be a food cart or truck – and number of vendors.

Each vendor produces its own schedule, with location and opening/closing hours, which are updated and available to users.

Food and beverage pricing and nutritional information is also accessible to users after they choose their desired vendor.

CUSTOMER/ORDERS/RATINGS

Customers, after creating an account on our platform with a customer username, can place orders at their desired food truck/cart and rate those orders on a scale of 1 to 5 – with 1 indicating an unpleasant dining experience and 5 indicating excellent food and/or service.

CONTACT_INFORMATION

Contact information is stored for both vendor operators as well as customers – this includes name, phone number, email, and the date of their enrollment into our program. Users can choose whether they want to provide this information in their account.

NUTRITION

Nutritional information is provided for each menu item, with breakdowns of caloric, protein, carbohydrate and fat content.

SQL Queries

1) A query for finding foods that are less than 20% fat. This can be a “healthy” search option for customers.

```
SELECT food_name AS Food, nutr_fat_g AS Fat
FROM food f JOIN nutrition n ON f.nutr_id = n.nutr_id
WHERE nutr_fat_g < (nutr_fat_g + nutr_protein_g + nutr_carbohydrates_g)
* .2
ORDER BY Fat;
```

Food	Fat
raclette	1
cuban sandwich	4
pad thai	4
tacos	6
pork sandwich	6
baked potato	7
cheesesteak sandwich	16
lumpia	18

2) Similar to the last query but for low sugar beverages. This query will quench your thirst without the carbs.

```
SELECT bev_name AS BeverageName, nutr_calories AS Calories
FROM beverage b JOIN nutrition n on b.nutr_id = n.nutr_id
WHERE nutr_calories < 200
ORDER by Calories;
```

BeverageName	Calories
jarritos fruit punch	84
root bear	141
bottled water	159
dr. pepper	175
ginger beer	176
pepsi	182
kombucha	189

SQL Queries

3) A query for finding trucks rated at least 3. This will allow customer to filter by the top rated trucks for lunch if they must impress someone!

```
SELECT vend_name as Vendor , AVG(rating_rating) as Rating
FROM vendor v JOIN orders o ON v.vend_id = o.vend_id
JOIN rating r ON r.rating_id = o.rating_id
GROUP BY v.vend_id
HAVING Rating >= 3
ORDER BY Rating desc;
```

Vendor	Rating
Now Make Me a Sandwich	3.4783
Wok This Way	3.3462
314 Pie	3.3333
Dreamy Drinks	3.2000
The Steel Hawk	3.1579
Big Daddy Mac Shack	3.1429
Macho Cheesus	3.1000
The Muddy Comet	3.0909
Snout and Co	3.0588
Lavender	3.0526
Well-Groomed Peanut	3.0476
Chickn Fix	3.0000
The Bright Wharf	3.0000
The Sugar Shark	3.0000

4) This query finds customers with more than 2 ratings. It is for developers to see who the most active users on the platform are.

```
SELECT contact_fName as First, contact_lName as Last, count(rating_id)
as NumberOfRatings
FROM contact_information ci JOIN customer c ON ci.contact_id =
c.contact_id
JOIN rating r on c.cust_id = r.cust_id
GROUP BY c.cust_id
HAVING NumberOfRatings > 2
ORDER BY NumberOfRatings desc;
```

First	Last	NumberOfRatings
Dave	Thorpe	4
Judd	Gethins	4
Natal	Checchi	4
Rae	Daulby	3
Johnathan	Jenik	3
Loria	Dabnot	3
Codi	Robilart	3
Ingaberg	Widdicombe	3
Jude	Wace	3
Kent	Winsbury	3
Florida	Burkitt	3
Natividad	Deem	3
Troy	Belcher	3
Christine	Ide	3

SQL Queries

5) This query shows the food trucks open RIGHT NOW! For when you are hungry RIGHT NOW. Will return different trucks depending on when you run the query.

```
SELECT vend_name as Vendor
FROM vendor v JOIN schedule s on v.vend_id = s.vend_id
JOIN week w on w.week_id = s.week_id
JOIN time t on t.time_id = s.time_id
WHERE w.week_day = DAYNAME(CURDATE())
AND t.time_openTime < TIME(CURTIME())
AND t.time_closeTime > TIME(CURTIME());
```

Vendor
Knead to Relax
Boiling Flower
Well-Groomed Peanut
Grillers in the Mist
Potroast
Dreamy Drinks
Grate Expectations
Olive Grove
Napkin Friends
Tipsy Birds
Wooden It Be Nice
Embers

6) Sorts the trucks by how expensive they are. You can use this when you are trying to impress a date with a fancy meal or trying to save some cash.

```
SELECT v.vend_name as Vendor, AVG(f.food_menu_price) AS AvgPrice
FROM food_menu f JOIN vendor v USING (vend_id)
GROUP BY vend_id
ORDER BY AvgPrice ASC;
```

Vendor	AvgPrice
The Dump Truck	3.000000
Embers	3.250000
Tokens of My Confection	4.250000
The Sugar Shark	4.666667
Grillers in the Mist	4.666667
Repulsive Cake	5.000000
Dante's Inferno Dogs	5.750000
Macho Cheesus	6.000000
Olive Grove	6.166667
El Camion	6.625000
Glamorous King	6.666667
Boiling Flower	7.000000
Early Rocket Market	7.000000
Knead to Relax	7.375000
314 Pie	7.500000
The Bright Wharf	7.666667
Educated Camel	7.833333

SQL Queries

7) Do you feel like you have been eating at the same places again and again? This query shows you the newest trucks, and limits the trucks shown to only those added to the database in the last year.

```
SELECT vend_name as Vendor, contact_enrollDate as Enrolled
FROM vendor v JOIN contact_information ci ON v.contact_id =
ci.contact_id
WHERE contact_enrollDate  > CURDATE() - 365
ORDER BY Enrolled;
```

Vendor	Enrolled
Lord of the Fries	2020-07-19
Educated Camel	2020-07-20
Taters Precious	2020-07-24
The Jumbo Frame	2020-08-22
Knead to Relax	2020-08-22
Indiana Bones	2020-08-26
Bad Moon	2020-08-26
Dante's Inferno Dogs	2020-09-01
Chickn Fix	2020-09-03
Seoul Bowl	2020-09-04
Oh My Cod	2020-09-09
Tokens of My Conf…	2020-09-28
314 Pie	2020-10-02
Embers	2020-10-17

8) Where are all these food trucks? This query shows you how many food trucks the platform has in each city. This could be use by sales staff to decide which cities to target for more trucks!

```
SELECT loc_city as City, count(vend_id) as NumberOfTrucks
FROM location l JOIN schedule s on l.loc_id = s.loc_id
GROUP BY City
ORDER BY NumberOfTrucks desc;
```

City	NumberOfTruc…
Tacoma	64
Seattle	60
Spokane	24
Vancouver	15
Yakima	15
Everett	12
Lakewood	4

SQL Queries

9) You need to know what food is at the food truck! This query shows you the food menu for a given truck.

```
SELECT food_name AS FoodName, nutr_calories as Calories, nutr_fat_g
as Fat, nutr_carbohydrates_g as Carbs, nutr_protein_g as Protein
FROM vendor v JOIN food_menu fm ON v.vend_id = fm.vend_id
JOIN food f ON f.food_id = fm.food_id
JOIN nutrition n on f.nutr_id = n.nutr_id
WHERE vend_name = "Floral and Hardy";
```

FoodName	Calories	Fat	Carbs	Protein
salad	499	31	45	10
baked potato	191	7	11	21
veggie sandwich	330	22	4	29

10) The number of good ratings by the enrolled date of the customers. Are newer customer happy with their meals? Is the platform doing a better or worse job?

```
SELECT c.contact_enrollDate AS EnrollDate , COUNT(r.rating_rating) as
NumGoodRatings
FROM contact_information c
JOIN customer cu ON cu.contact_id = c.contact_id
LEFT JOIN rating r ON cu.cust_id = r.cust_id
WHERE r.rating_rating IN (SELECT rating_rating FROM rating WHERE
rating_rating >= 4)
GROUP BY EnrollDate
ORDER BY EnrollDate ASC;
```

EnrollDate	NumGoodRatings
2019-10-21	1
2019-10-22	2
2019-10-26	1
2019-10-27	1
2019-10-30	1
2019-11-04	1
2019-11-05	2
2019-11-06	1
2019-11-16	1
2019-11-17	1
2019-11-20	2

SQL Stored Procedure

Allows you to find a food which falls within any sort of range for calories, carbs, protein, fat. This allows people on any diet to find a food that fits their needs!

```
CREATE DEFINER=`mm_cpsc502101team05`@`%` PROCEDURE `nutriCheck`(calMin INT, calMax INT, carbMin INT,
carbMax INT, protMin INT, protMax INT, fatMin INT, fatMax INT)
BEGIN
SELECT food_name AS FoodName, nutr_calories as Calories, nutr_carbohydrates_g as Carbs, nutr_protein_g as Protein,
nutr_fat_g as Fat
FROM food f JOIN nutrition n on f.nutr_id = n.nutr_id
WHERE nutr_calories > calMin AND nutr_calories < calMax
AND nutr_carbohydrates_g > carbMin AND nutr_carbohydrates_g < carbMax
AND nutr_protein_g > protMin AND nutr_protein_g < protMax
AND nutr_fat_g > fatMin AND nutr_fat_g < fatMax;
END

CALL nutriCheck(100, 1000, 25, 50, 0, 10, 0, 50);
```

FoodName	Calories	Carbs	Protein	Fat
falafel	520	34	6	40
chilaquiles	264	28	2	16
chicken bowl	377	41	6	21
fried chicken sandwich	331	48	1	15
hamburger	456	42	9	28