Part 4: Database Presentation

PLATE MATE

HEALTHY FOOD

BMS0601
Firas Zaghab
Elizabeth Gomes
Zixuan Wu
Percival Masaline
Channele Sawyer



Healthy Meal Plan Delivery Service

Welcome To Plate Mate

Our Story

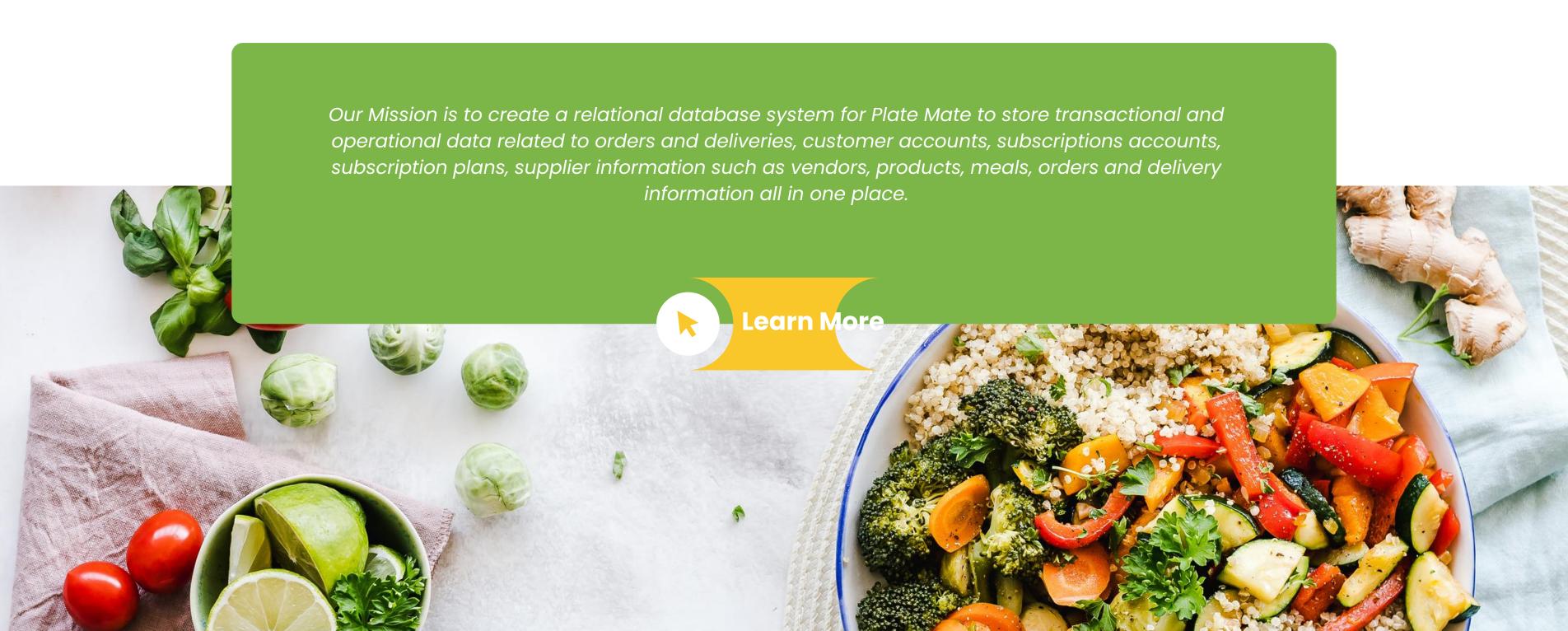
At Plate Mate, we believe that everyone should have access to healthy, delicious meals that fit their busy lifestyle. We source only the highest-quality ingredients, using local and organic products whenever possible, and prepare each meal with care and attention to detail. We are committed to providing personalized service and creating a seamless delivery experience for our customers, so they can focus on what matters most - enjoying great food and living their best life.







Our Mission





Mission Objectives

- The database will store data for individual customers such as customer accounts, past orders, subscription accounts, contact information.
- The database will store data for individual subscriber accounts such as subscriber identification, subscription plant types, cost and date of enrollment in each plan.
- The database will store information pertaining to subscription plan types such as cost of weekly, biweekly and monthly subscription types.
- The system will track all order transactions and maintain data related to each order such as order numbers, order items, order dates, and delivery information.





Mission Objectives

- The system will track delivery data such as driver information, delivery date, meals delivered, and customer account associated with delivery.
- The database will store meal information such as vegan ,vegetarian, and gluten free meal types, as well as products used in the meals.
- The database will store vendor contact information and track products supplied by each vendor.
- The database will store products such as product name, price and supplier.





Business Rules

- A customer can have multiple subscriptions. A subscription must belong to one customer
- There are three subscription types available for a customer to choose from Weekly, Bi-Weekly, and Monthly.
- An order can only belong to one customer. A customer can place many orders.
- A placed order can consist of several meals (up to 4 meals). A meal can be included in any order.



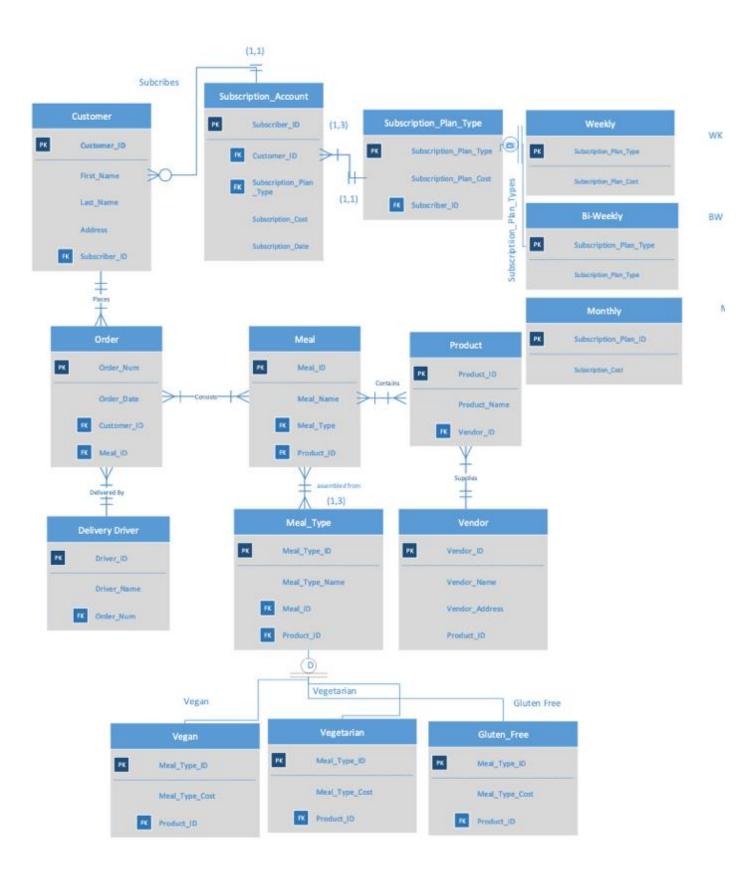
Business Rules

- There are 3 Meal Types for customers to choose from, Vegan, Vegetarian and Gluten Free. An individual meal cannot be classified as multiple types.
- A meal must contain at least one product and usually contains various products. A product can be used in various meals.
- A product must be supplied by one vendor. A vendor can supply multiple products.
- A delivery driver can deliver many orders. An order can only be delivered by one driver.



ER Diagram







Queries

LA customer can have multiple subscriptions. A subscription must belong to one customer. SELECT G4_SUBSCRIPTION_ACCOUNT.SUBSCIPTION_PLAN_TYPE,
G4_SUBSCRIPTION_ACCOUNT.SUBSCRIPTION_DATE,
G4_SUBSCRIPTION_ACCOUNT.FIRST_NAME,
G4_SUBSCRIPTION_ACCOUNT.LAST_NAME,G4_SUBSCRIPTION_ACCOUNT.SUBSCRIPTION
_DATE,G4_SUBSCRIPTION_ACCOUNT.SUBSCRIPTION_COST,G4_CUSTOMER_ID
D FROM G4_SUBSCRIPTION_ACCOUNT INNER JOIN G4_CUSTOMER ON
G4_SUBSCRIPTION_ACCOUNT.CUSTOMER_ID = G4_CUSTOMER.CUSTOMER_ID WHERE
G4_SUBSCRIPTION_ACCOUNT.CUSTOMER_ID > '1' AND SUBSCRIPTION_DATE BETWEEN
'2022-10-10' AND '2023-01-10' ORDER BY CUSTOMER_ID;

SUBSCRIBER_ID	SUBSCRIPTION_PLAN_TYPE	SUBSCRIPTION_COST	SUBSCRIPTION_DATE	FIRST_NAME	LAST_NAME	CUSTOMER_ID
S001	Monthly	180.00	2022-10-10	John	Smith	C001
S016	Weekly	50.00	2023-06-30	John	Smith	C001
S011	Weekly	50.00	2023-03-30	Ellen	Zhang	C002
S012	Bi-Weekly	100.00	2023-03-30	Ellen	Zhang	C002

An order can belong to one customer. A customer can have many orders. SELECT

G4_ORDER.ORDER_ID,G4_ORDER.ORDER_DATE,G4_ORDER.MEAL_ID,G4_CUSTOMER.CUSTOMER_ID,G4_CUSTOMER.FIRST_NAME,G4_CUSTOMER_LAST_NAME FROM G4_CUSTOMER INNER JOIN G4_ORDER ON G4_CUSTOMER_ID=G4_ORDER,CUSTOMER_ID WHERE G4_CUSTOMER_ID >' 1' AND FIRST_NAME LIKE '%KELLY'%

	ORDER_ID	ORDER_DATE	MEAL_ID	COSTOMER_ID	FIRST_NAME	LAST_NAME
1	6	2023-03-05	GF401	C005	Kelly	Greene
2	18	2023-01-11	VG402	C005	Kelly	Greene
3	21	2023-04-02	VEG401	C005	Kelly	Greene



02



Queries

THERE ARE 3 MEAL TYPES TO CHOOSE FROM VEGAN, VEGETARIAN, AND GLUTON-FREE. AN INDIVIDUAL MEAL CANNOT BE CLASSIFIED AS MULTIPLE TYPES.

CREATE VIEW [MEAL TYPES] AS

SELECT G4_MEAL .MEAL_NAME,G4_MEAL.MEAL_TYPE FROM G4_MEAL

WHERE MEAL_TYPE >'2'; SELECT * FROM[MEAL TYPES];

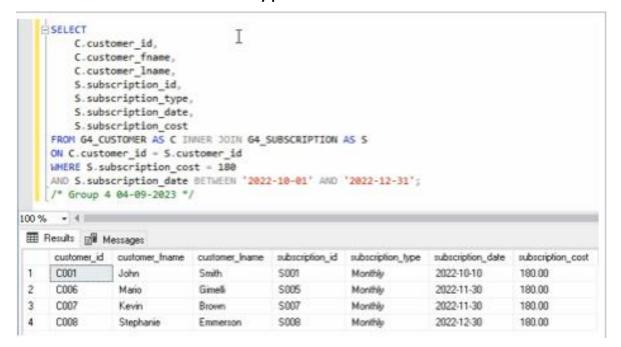
MEAL_ID	MEAL_TYPE	MEAL_NAME
VEG401	VEGATARIAN	PINEAPPLE FRIED RICE
VEG406	VEGATARIAN	CAULIFLOWER PARMESIAN
GF409	GLUTON FREE	CAULIFLOWER FRIED RICE

A DELIVERY DRIVER CAN ONLY DELIVER MANY ORDERS,AN ORDER CAN
ONLY BE DELIVERED BY ONE DRIVER. SELECT G4_ORDER.DRIVER_ID,
COUNT(*)AS 'DRIVER ORDER' FROM G4_ORDER GROUP BY
G4_ORDER.DRIVER_ID HAVING COUNT (*) >=1;,

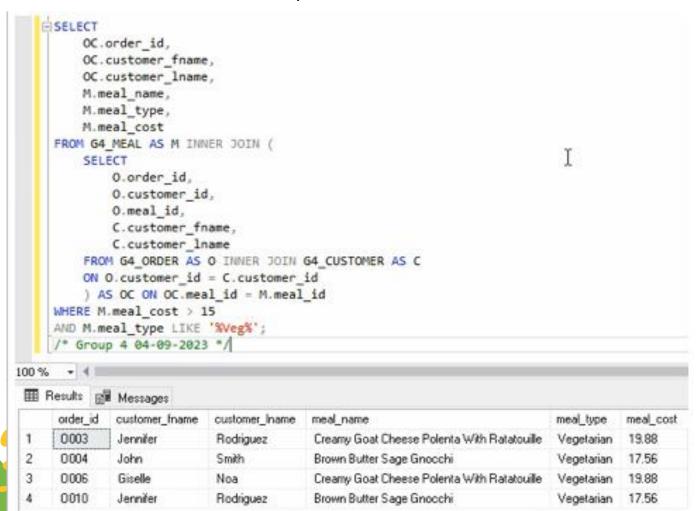
	DRIVER_ID	DRIVER ORDER
1	D001	2
2	D002	5
3	D003	6
4	D004	3



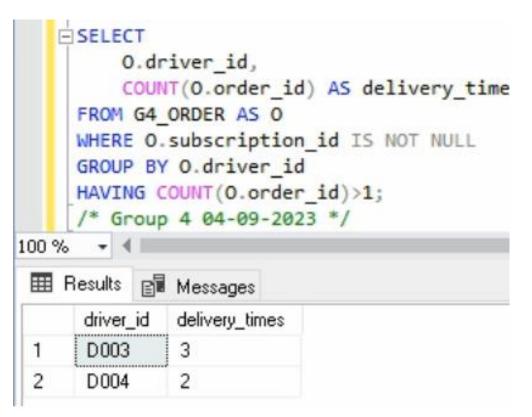
Subscription Cost by Customers and Sub Types



Meal Cost per Customer



Driver Delivery Status



Product Needed for Each Meal

```
SELECT
         M.meal_id, M.meal_name,
         new.product needed
     FROM (
         SELECT
             M.meal_id,
             COUNT(M.meal id) AS product needed
         FROM (
             SELECT
                 R.meal id,
                 PR.product_id, PR.product_name, PR.product_count, PR.product_price
             FROM G4 RECIPE AS R RIGHT JOIN (
                 SELECT * FROM G4 PRODUCT AS P
                 WHERE P. product count < 20
                 ) AS PR ON PR.product_id = R.product_id
             ) AS PM RIGHT JOIN 64 MEAL AS M
             ON PM.meal id - M.meal id
         GROUP BY M.meal id
         HAVING COUNT(M.meal_id)>1
         ) AS new INNER JOIN G4_MEAL AS M
         ON new.meal id - M.meal id
     ORDER BY product needed DESC;
    /* Group 4 04-09-2023 */
100 % -
Results Ressages
                                                product_needed
             Creamy Goat Cheese Polenta With Ratatouille
             Brown Butter Sage Gnocchi
```



Queries



Subscription Plan Types

Weekly

\$ 50.00

Tableau Visualization of most popular Subscription Plan Type by Subscription Account or number of subscribers. The data indicates that the Monthly subscription is Plate Mates most popular plan.

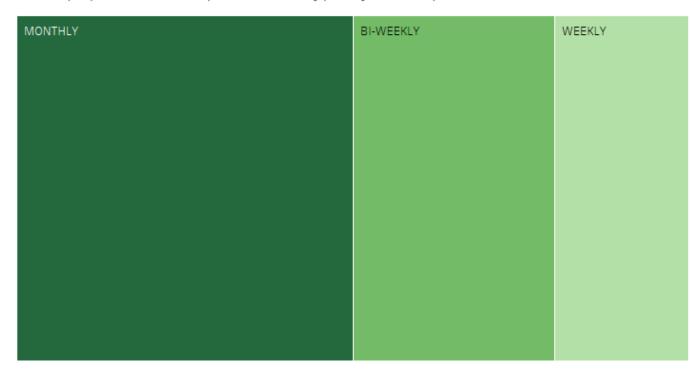
Bi-weekly

\$100.00

Monthly

\$180.00

Most popular Subscription Plan Type by Subsription Accounts



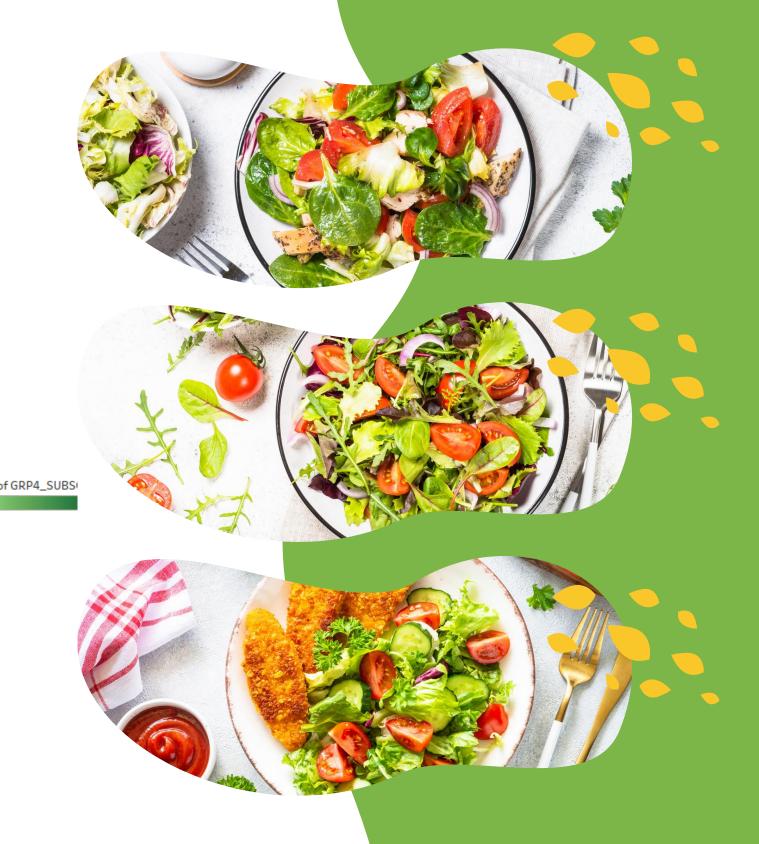




Tableau Visualization for Number of Orders delivered per Driver in a specified time frame. The data indicates that driver 'D003; delivered the most orders during this period.

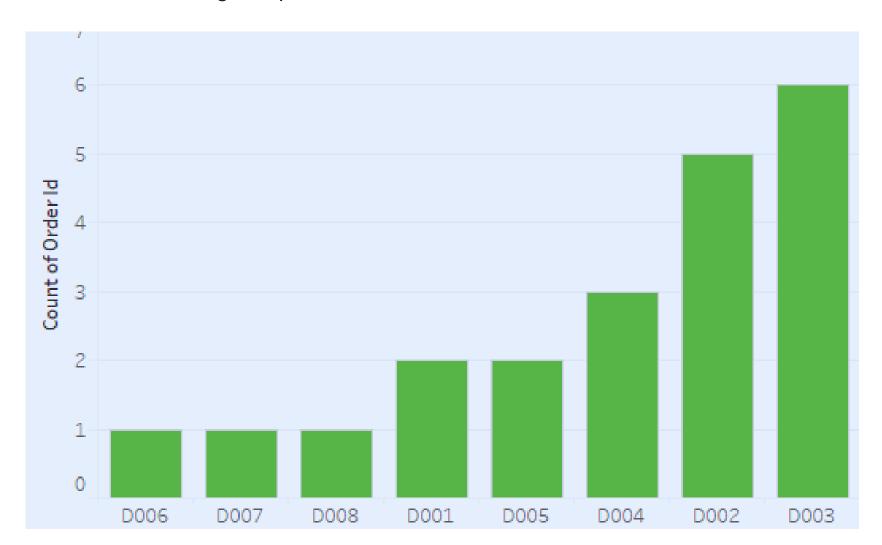






Tableau Visualization for Number of Orders delivered per Meal in specified in a specified time frame to determine most popular meals. The data indicates that VEG407 OR VEGETARIAN PUMPKIN CURRY was the most ordered meal during this period.





		vendor redire		
Product Name	Meal Name	Giants Garden	Soy Bros	Tiny Farms
Black Beans	Tempeh Burrito Bowl		2.290	
Brown Rice	Tempeh Burrito Bowl	2.700		
Butter	Brown Butter Sage Gnocchi			3.000
Carrots	Gluten-free Chicken Stir-Fry	1.500		
Chicken Breast	Gluten-free Chicken Stir-Fry			3.500
Eggplant	Creamy Goat Cheese Polenta With R	2.290		
Gnocchi	Brown Butter Sage Gnocchi			5.170
Goat Cheese	Creamy Goat Cheese Polenta With R			3.290
Green Peas	Gluten-free Chicken Stir-Fry	1.180		
Polenta	Creamy Goat Cheese Polenta With R			2.790
Quinoa	Tofu Quinoa Salad			5.750
Sage	Brown Butter Sage Gnocchi	2.190		
Tempeh	Tempeh Burrito Bowl		4.190	
Tofu	Tofu Quinoa Salad		5.500	
Tomatoes	Creamy Goat Cheese Polenta With R	1.100		
Yellow Squash	Creamy Goat Cheese Polenta With R	1.800		
Zucchinis	Creamy Goat Cheese Polenta With R	1.400		

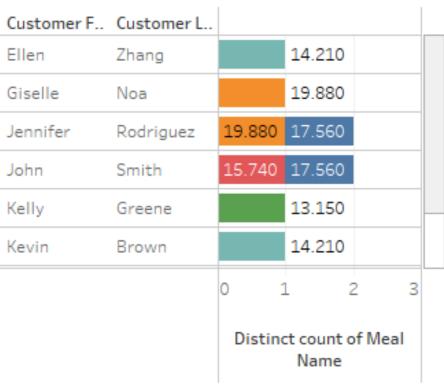
Vendor Name



Sum of Product Price broken down by Vendor Name vs. Product Name and Meal Name.

Dashboard

OrderCost by Cx&Meal-Name(MealCount)



OrderDelivery by Driver

Driver Fna	Driver Lna					
Aaron	Gomes					
Jayden	Mill					
Julio	Taylor					
Martin	Li					
Nick	Kim					
Philip	Curtis					
Richard	Lee					
		0	1	2	3	4
		Dis	tinct o	ount o	of Ord	er

SubscriptionCost by Cx&SubType

		Subscription	Туре
Customer Fname	Customer Lname	Bi-Weekly	Monthly
Ellen	Zhang	100.0	
Giselle	Noa	100.0	
Jennifer	Rodriguez		
John	Smith		18
Kevin	Brown		18
Mario	Gimelli		18
Mike	Johns		
Stephanie	Emmerson		18

Meal Name

Brown Butter S
Creamy Goat Chee

Gluten-free Chicker
Tempeh Burrito Bow

Tofu Quinoa Salad

Orders by Cx OrderDate&MealType

\				Meal Type	
ar of der Date	Quarter of Order Date	Month of Order Date	n Vegetarian		
Ellen	Zhang	2022			
Giselle	Noa	2022			
Jennifer	Rodriguez	2022			
		2023			
John	Smith	2022			
Kelly	Greene	2022			

ProductPrice by Products&Vendors for each Meal

		Vendor Name	
Product Na	Meal Name	Giants Garden	Soy Bros
Black Beans	Tempeh Burrito Bowl		
Brown Rice	Tempeh Burrito Bowl	2.700	
Butter	Brown Butter Sage Gnocchi		
Carrots	Gluten-free Chicken Stir-Fry	1.500	
Chicken Bre	Gluten-free Chicken Stir-Fry		
Eggplant	Creamy Goat Cheese Polenta With R	2.290	
Gnocchi	Brown Butter Sage Gnocchi		
Goat Cheese	Creamy Goat Cheese Polenta With R		
Green Peas	Gluten-free Chicken Stir-Fry	1.180	
Polenta	Creamy Goat Cheese Polenta With R		
Quinoa	Tofu Quinoa Salad		
Sage	Brown Butter Sage Gnocchi	2 190	



PLATE MATE

THANK'S FORWATCHING

WE PLEDGE ON OUR HONOR THAT WE HAVE NOT GIVEN OR RECEIVED ANY UNAUTHORIZED

ASSISTANCEON THIS ASSIGNMENT