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RawSOME PAWSOME

IST659 Project

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**Summary:**

**Background**

A couple of months ago, a new puppy named Kinako joined our family; now we have two cats and one dog. Kinako has a picky tongue, so we tried all kinds of kibble from various brands and DYI homemade dog foods. Finally, we decided to try raw food diet, and she loves it! At first, we were unsure if Kinako would like it, so we just tried it, but as it went smoothly for more than three months, we started to investigate raw food meal plans more. In the present world, where people can find jobs on the other side of the world with just one Internet search button, information on raw food diet for a dog was very limited. The raw food diet for a dog has various benefits for their health, such as healthier skin, cleaner teeth, higher energy levels, and smaller stools. However, many mainstream veterinarians disagree with the raw food diet and warn about its risks. Potential risks that they claim include an unbalanced diet that may damage dogs' health. As a non-dietitian but parents who want my babies to have a long healthy life, I wanted to make this easier. I thought that with well-structured data, we could make a balanced raw diet plan.

**Goals**

In this project, I will focus on two things; 1: Make a balanced raw diet plan for dogs and cats 2: Track the ingredients inventory. As we tried this diet for over three months, we realized it is hard to track all the ingredients we bought. For example, when I purchased a whole chicken and a rabbit. I organized and stored it by type and amount. After a while it is hard to track type of ingredient and how much of ingredients are stored. Thus, while tracking the inventory, the database will make a balanced diet plan based on the ingredients in the inventory. If there is not enough it will suggest what ingredients are needed. To sum up, the goal of this project will be to identify the inventory, propose a meal plan based on the inventory. Then suggest what ingredients and how much more you need if you run out of ingredients.

**Stakeholders**

Since I know several pet parents are interested in this project, I figured this could be a business opportunity. I talked to my friend, a soft engineer; he also agreed to make this a service. Moreover, we have a potential investor too. I have proposed that the implementation of this database will bring the business opportunity of the new dog food market, the profitability of the local butchers and grocery stores, and increase the needs of the veterinary nutritionist. Pet owners will be able to start or maintain their raw food diet plan for their pets easily. To sum up, the stakeholders in this project are the investor, soft engineer, pet owners, veterinary nutritionists, grocery stores, and the local butcher shops.

**Glossary**

An **Owner** is a person who owned pets and makes plans the raw food meal for their pets through this service.

A **Pet** is an animal owned by a person.

A **PetRequirement** is a daily required calorie by a pet.

A **Stock** is a storage owned by an owner.

A **Store** is a grocery store or butcher shop that sells raw meats, vegetables, and fruits.

An **Ingredient** isfood ingredient that is a part of the meal plan.

A **MealModel** is three different models suggested by the owner or pet’s nutrition requirement, which includes; PMR(Prey Model Raw), BARF(Biologically Appropriate Raw Foods), Custom(customize by user).

A **MealPlanl** is a designed meal plan for a pet with preference, requirement, and quantity of an ingredient in stock. If there is an insufficient quantity of an ingredient in stock, the database will suggest replenishment from the store what amount is needed for the meal plan.

**Entities and Business Rules**

The business rules by which the database is defined are the following:

|  |  |  |
| --- | --- | --- |
| **Entity** | **Attribute** | **Description** |
| Owner | **OwnerID** | Primary Key: Identifies the Owner uniquely |
| Name [rc] | Owner’s full name. Composite of first and last name. |
| EmailAddress [ru] | Owner’s Email address. Unique value. |
| Pet | **PetID** | Primary Key: Identifies the Pet uniquely. |
| PetName [r] | Pet’s name. |
| PetType [r] | Pet’s type such as dog or cat. |
| DateOfBirth [r] | Pet’s date of birth. |
| PetWeight [r] | Pet’s weight in gram. |
| Breed | Pet’s breed such as German shepherd, poodle, or Persian cat, etc |
| WeightCategory [r] | There are 9 options; underweight(1,2,3), ideal(4,5), overweight(6,7,8,9) |
| ActivityRate [r] | There are 6 options (sedentary, low activity, moderate activity, normal intensity active, moderate intensity active, high intensity active). |
| Spayed [r] | Two options can choose; Yes or No |
| PreferenceIngredient [m] | Pet’s preference ingredient source such as chicken, rabbit, or pork. |
| PetRequirement | **PetRequirementID** | Primary Key: Identifies the pet required calorie uniquely. |
| TotalRequiredCalorie [r] | Pet’s daily required calorie. |
| Stock | **StockID** | Primary Key: Identifies the Owner’s stock uniquely. |
| StorageName [r] | Storage’s name. |
| StoredDate [r] | Ingredient’s stored date. |
| IngredientAmount [r] | Stored ingredient amount in gram. |
| Store | **StoreID** | Primary Key: Identifies the Store uniquely. |
| StoreName [r] | Store’s name. |
| IngredientPrice/100g [r] | Ingredient’s price per 100gram. |
| Ingredient | **IngredientID** | Primary Key: Identifies the Ingredient uniquely |
| Type [r] | There are 7 options; muscle meat, edible bone, organ, liver, vegetable, fruits and seeds/nuts. |
| Source [r] | The ingredient’s source, such as chicken, pork, or beef. |
| Part [r] | The ingredient’s part, such as skin, fat, jowls, tongue, heart or, lungs |
| Calorie [r] | The ingredient’s calorie per 100gram |
| Fat [r] | The ingredient’s fat per 100gram |
| Protein [r] | The ingredient’s protein per 100gram |
| Carbs [r] | The ingredient’s carbohydrate per 100gram |
| Fiber [r] | The ingredient’s fiber per 100gram |
| Sugar [r] | The ingredient’s sugar per 100gram |
| MealModel | **MealModelID** | Primary Key: Identifies the Meal model uniquely |
| MealModelName [r] | There are three options; PMR(Prey Model Raw), BARF(Biologically Appropriate Raw Foods), Custom(customize by user) |
| MealModelDescription | Description of each meal model |
| IngredientType [rdm] | Ingredient types included in meal model |
| IngredientRatio [rm] | Ingredient ratio by ingredient type included in meal model |
| MealPlan | **MealPlanID** | Primary Key: Identifies the Meal plan uniquely |
| SuggestedDate [r] | Suggested date of a meal plan. |
| IngredientType [rdm] | The ingredient’s type contained in a meal plan |
| IngredientSource [rdm] | The ingredient’s source of the ingredient’s type contained in a meal plan |
| IngredientPart [dm] | The ingredient’s part of the ingredient’s source contained in a meal plan |
| IngredientAmount [rm] | The part of ingredient’s amount in gram contained in a meal plan |

|  |
| --- |
| **Relationships** |
| * An Owner can own zero or many Pets. A Pet owned by one Owner. * A Pet has one Pet Requirement. Pet Requirement can belong to one or many Pets. * A Pet can have zero or many Preference Ingredient. * A Pet can have one Meal Model. A Meal Model belongs to one or many Pets. * A Meal Model contained many Ingredient Ratio. * An Owner can have zero or many Stocks. A Stock can belong to one Owner. * A Store and a Stock have zero or many Ingredients. An Ingredient owned by zero or many Stock or Store. * A Meal Plan contained multiple Ingredient’ types, source, part and amount. A Meal Plan was created based on Meal Model for each Pet. * A Meal Plan is planned based on Stock’s ingredients first. If there is not enough with Stock’s ingredients, suggest Store’s ingredients. |

**Data Questions**

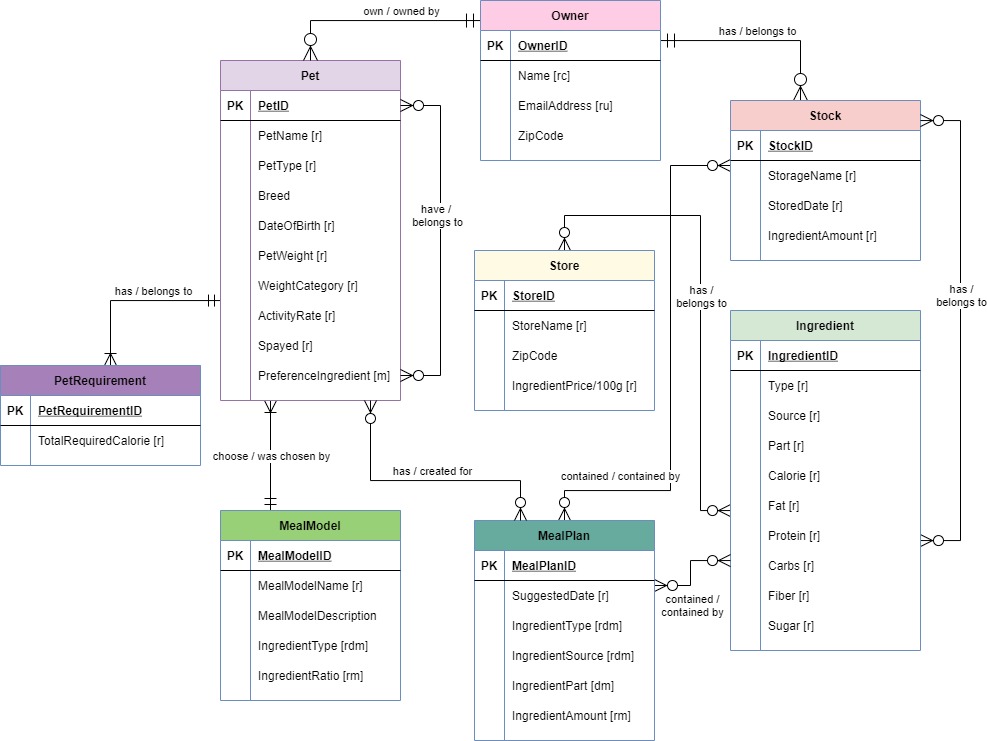
* What are the top 5 ingredient types for preference by pet?
* What is the average needs calorie by pet type?
* What is the average age by pet type and most common activity level for a pet?
* How is the percentage divided between pets with spayed and pets without spayed by pet type?
* What is the average daily raw food bill per pet? And how connected to their weight?

NOTE: Due to heavy data set needs to insert, certain data questions modified or deleted. Attached the previous data questions that I planned last time below.

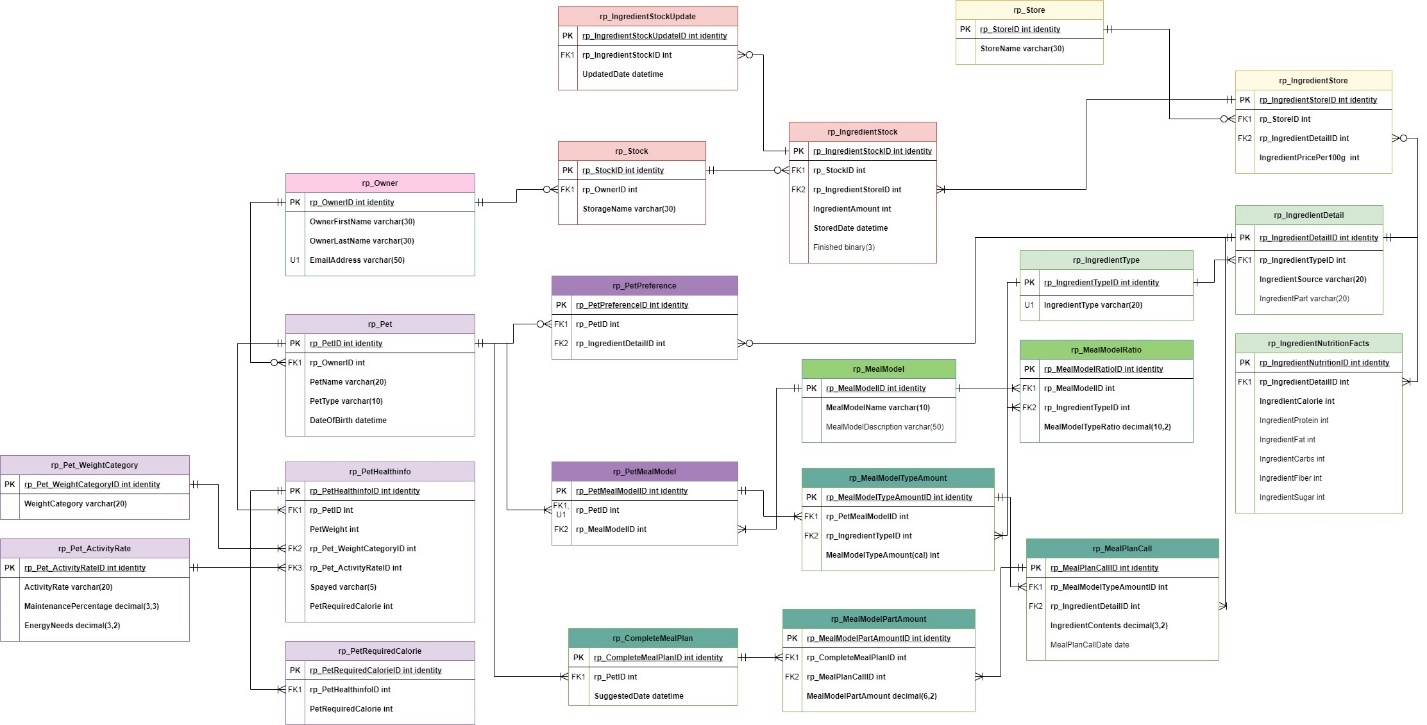
Text

Description automatically generated

**Conceptual model**



**Logical model**

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**Physical database design**

-- drop all database objects in reverse order of their dependencies

-- including views, stored procedures and tables;

-- drop all procedures or trigger

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_updIngredientIntoStock;

go

DROP TRIGGER IF EXISTS dbo.trg\_ins2\_MealPlanCall;

go

DROP TRIGGER IF EXISTS dbo.trg\_ins1\_MealPlanCall;

go

DROP TRIGGER IF EXISTS dbo.trg\_ins\_PetMealModel;

go

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_AddMealModelTypeAmount\_BARF;

go

DROP TRIGGER IF EXISTS dbo.trg\_upd\_IngredientStock;

go

DROP TRIGGER IF EXISTS dbo.trg\_upd2\_IngredientStock;

go

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_AddIngredientIntoStock;

go

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_AddIngredientPartIntoStore;

go

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_AddIngredientSourceIntoStore;

Go

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_AddNutritionPart;

go

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_AddNutritionSource;

go

DROP TRIGGER IF EXISTS dbo.trg\_ins\_PetHealthinfo;

go

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_AddPetHealthinfo;

go

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_AddPet;

go

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_AddStock;

go

DROP PROCEDURE IF EXISTS dbo.rp\_pro\_AddOwner;

go

-- drop all views

DROP VIEW IF EXISTS dbo.rp\_v\_OwnerPet;

go

DROP VIEW IF EXISTS dbo.rp\_v\_StockReport;

go

DROP VIEW IF EXISTS dbo.rp\_v\_PetPreferenceCount;

go

DROP VIEW IF EXISTS dbo.rp\_v\_MealPlanCallhelp;

go

DROP VIEW IF EXISTS dbo.rp\_v\_CompletePlans;

go

DROP VIEW IF EXISTS dbo.rp\_v\_UpdateIngredientStock;

go

-- drop all tables in reverse order of their dependencies

DROP TABLE IF EXISTS dbo.rp\_MealModelPartAmount;

go

DROP TABLE IF EXISTS dbo.rp\_CompleteMealPlan;

go

DROP TABLE IF EXISTS dbo.rp\_MealPlanCall;

go

DROP TABLE IF EXISTS dbo.rp\_MealModelTypeAmount;

go

DROP TABLE IF EXISTS dbo.rp\_PetMealModel;

go

DROP TABLE IF EXISTS dbo.rp\_MealModelRatio;

go

DROP TABLE IF EXISTS dbo.rp\_MealModel;

go

DROP TABLE IF EXISTS dbo.rp\_IngredientStockUpdate;

go

DROP TABLE IF EXISTS dbo.rp\_IngredientStock;

go

DROP TABLE IF EXISTS dbo.rp\_IngredientStore;

go

DROP TABLE IF EXISTS dbo.rp\_Store;

go

DROP TABLE IF EXISTS dbo.rp\_Stock;

go

DROP TABLE IF EXISTS dbo.rp\_PetPreference;

go

DROP TABLE IF EXISTS dbo.rp\_IngredientNutritionFacts;

go

DROP TABLE IF EXISTS dbo.rp\_IngredientDetail;

go

DROP TABLE IF EXISTS dbo.rp\_IngredientType;

go

DROP TABLE IF EXISTS dbo.rp\_PetRequiredCalorie;

go

DROP TABLE IF EXISTS dbo.rp\_PetHealthinfo;

go

DROP TABLE IF EXISTS dbo.rp\_Pet\_ActivityRate;

go

DROP TABLE IF EXISTS dbo.rp\_Pet\_WeightCategory;

go

DROP TABLE IF EXISTS dbo.rp\_Pet;

go

DROP TABLE IF EXISTS dbo.rp\_Owner;

go

-- create all tables in order of their dependencies

CREATE TABLE rp\_Owner

(

rp\_OwnerID int NOT NULL IDENTITY

, OwnerFirstName varchar(30) NOT NULL

, OwnerLastName varchar(30) NOT NULL

, EmailAddress varchar(50) NOT NULL

-- place constraints

, CONSTRAINT rp\_Owner\_PK PRIMARY KEY (rp\_OwnerID)

, CONSTRAINT rp\_Owner\_U1 UNIQUE (EmailAddress)

);

CREATE TABLE rp\_Pet

(

rp\_PetID int NOT NULL IDENTITY

, PetName varchar(20) NOT NULL

, PetType varchar(10) NOT NULL

, DateOfBirth datetime NOT NULL

, rp\_OwnerID int NOT NULL

-- place constraints

, CONSTRAINT rp\_Pet\_PK PRIMARY KEY (rp\_PetID)

, CONSTRAINT rp\_Pet\_FK1 FOREIGN KEY (rp\_OwnerID) REFERENCES rp\_Owner (rp\_OwnerID)

-- limits values for PetType column

, CONSTRAINT rp\_Pet\_chk\_val CHECK (PetType in ('Dog','Cat'))

);

CREATE TABLE rp\_Pet\_WeightCategory

(

rp\_Pet\_WeightCategoryID int NOT NULL IDENTITY

, WeightCategory varchar(20) NOT NULL

-- place constraints

, CONSTRAINT rp\_Pet\_WeightCategory\_PK PRIMARY KEY (rp\_Pet\_WeightCategoryID)

);

CREATE TABLE rp\_Pet\_ActivityRate

(

rp\_Pet\_ActivityRateID int NOT NULL IDENTITY

, ActivityLevel varchar(40) NOT NULL

, EnergyNeeds decimal(6,2)

-- place constraints

, CONSTRAINT rp\_Pet\_ActivityRate\_PK PRIMARY KEY (rp\_Pet\_ActivityRateID)

);

CREATE TABLE rp\_PetHealthinfo

(

rp\_PetHealthinfoID int NOT NULL IDENTITY

, PetWeight decimal(6,2) NOT NULL

, rp\_Pet\_WeightCategoryID int NOT NULL

, rp\_Pet\_ActivityRateID int NOT NULL

, Spayed varchar(5) NOT NULL

, rp\_PetID int NOT NULL

-- place constraints

, CONSTRAINT rp\_PetHealthinfo\_PK PRIMARY KEY (rp\_PetHealthinfoID)

, CONSTRAINT rp\_PetHealthinfo\_FK1 FOREIGN KEY (rp\_PetID) REFERENCES rp\_Pet (rp\_PetID)

, CONSTRAINT rp\_PetHealthinfo\_FK2 FOREIGN KEY (rp\_Pet\_WeightCategoryID) REFERENCES rp\_Pet\_WeightCategory (rp\_Pet\_WeightCategoryID)

, CONSTRAINT rp\_PetHealthinfo\_FK3 FOREIGN KEY (rp\_Pet\_ActivityRateID) REFERENCES rp\_Pet\_ActivityRate (rp\_Pet\_ActivityRateID)

-- limits values for Spayed column

, CONSTRAINT rp\_PetHealthinfo\_chk\_val3 CHECK (Spayed in ('Yes','No'))

);

CREATE TABLE rp\_PetRequiredCalorie

(

rp\_PetRequiredCalorieID int NOT NULL IDENTITY

, rp\_PetHealthinfoID int NOT NULL

, PetRequiredCalorie int NOT NULL

-- place constraints

, CONSTRAINT rp\_PetRequiredCalorie\_PK PRIMARY KEY (rp\_PetRequiredCalorieID)

, CONSTRAINT rp\_PetRequiredCalorie\_FK1 FOREIGN KEY (rp\_PetHealthinfoID) REFERENCES rp\_PetHealthinfo (rp\_PetHealthinfoID)

);

CREATE TABLE rp\_IngredientType

(

rp\_IngredientTypeID int NOT NULL IDENTITY

, IngredientType varchar(20) NOT NULL

-- place constraints

, CONSTRAINT rp\_IngredientType\_PK PRIMARY KEY (rp\_IngredientTypeID)

, CONSTRAINT rp\_IngredientType\_U1 UNIQUE (IngredientType)

);

CREATE TABLE rp\_IngredientDetail

(

rp\_IngredientDetailID int NOT NULL IDENTITY

, rp\_IngredientTypeID int NOT NULL

, IngredientSource varchar(20) NOT NULL

, IngredientPart varchar(20)

-- place constraints

, CONSTRAINT rp\_IngredientDetail\_PK PRIMARY KEY (rp\_IngredientDetailID)

, CONSTRAINT rp\_IngredientDetail\_FK1 FOREIGN KEY (rp\_IngredientTypeID) REFERENCES rp\_IngredientType (rp\_IngredientTypeID)

);

CREATE TABLE rp\_IngredientNutritionFacts

(

rp\_IngredientNutritionFactsID int NOT NULL IDENTITY

, rp\_IngredientDetailID int NOT NULL

, IngredientCalorie int NOT NULL

, IngredientFat int

, IngredientProtein int

, IngredientCarbs int

, IngredientFiber int

, IngredientSugar int

-- place constraints

, CONSTRAINT rp\_IngredientNutritionFacts\_PK PRIMARY KEY (rp\_IngredientNutritionFactsID)

, CONSTRAINT rp\_IngredientNutritionFacts\_FK1 FOREIGN KEY (rp\_IngredientDetailID) REFERENCES rp\_IngredientDetail (rp\_IngredientDetailID)

);

CREATE TABLE rp\_PetPreference

(

rp\_PetPreferenceID int NOT NULL IDENTITY

, rp\_PetID int NOT NULL

, rp\_IngredientDetailID int NOT NULL

-- place constraints

, CONSTRAINT rp\_PetPreference\_PK PRIMARY KEY (rp\_PetPreferenceID)

, CONSTRAINT rp\_PetPreference\_FK1 FOREIGN KEY (rp\_PetID) REFERENCES rp\_Pet (rp\_PetID)

, CONSTRAINT rp\_PetPreference\_FK2 FOREIGN KEY (rp\_IngredientDetailID) REFERENCES rp\_IngredientDetail (rp\_IngredientDetailID)

);

CREATE TABLE rp\_Stock

(

rp\_StockID int NOT NULL IDENTITY

, StorageName varchar(30) NOT NULL

, rp\_OwnerID int NOT NULL

-- place constraints

, CONSTRAINT rp\_Stock\_PK PRIMARY KEY (rp\_StockID)

, CONSTRAINT rp\_Stock\_FK1 FOREIGN KEY (rp\_OwnerID) REFERENCES rp\_Owner (rp\_OwnerID)

);

CREATE TABLE rp\_Store

(

rp\_StoreID int NOT NULL IDENTITY

, StoreName varchar(30) NOT NULL

-- place constraints

, CONSTRAINT rp\_Store\_PK PRIMARY KEY (rp\_StoreID)

);

CREATE TABLE rp\_IngredientStore

(

rp\_IngredientStoreID int NOT NULL IDENTITY

, rp\_StoreID int NOT NULL

, rp\_IngredientDetailID int NOT NULL

, IngredientPricePer100g decimal(6,2) NOT NULL

-- place constraints

, CONSTRAINT rp\_IngredientStore\_PK PRIMARY KEY (rp\_IngredientStoreID)

, CONSTRAINT rp\_IngredientStore\_FK1 FOREIGN KEY (rp\_StoreID) REFERENCES rp\_Store (rp\_StoreID)

, CONSTRAINT rp\_IngredientStore\_FK2 FOREIGN KEY (rp\_IngredientDetailID) REFERENCES rp\_IngredientDetail (rp\_IngredientDetailID)

);

CREATE TABLE rp\_IngredientStock

(

rp\_IngredientStockID int NOT NULL IDENTITY

, rp\_StockID int NOT NULL

, rp\_IngredientStoreID int NOT NULL

, IngredientAmount decimal(6,2) NOT NULL

, StoredDate datetime NOT NULL default GETDATE()

, Finished varchar(3)

-- place constraints

, CONSTRAINT rp\_IngredientStock\_PK PRIMARY KEY (rp\_IngredientStockID)

, CONSTRAINT rp\_IngredientStock\_FK1 FOREIGN KEY (rp\_StockID) REFERENCES rp\_Stock (rp\_StockID)

, CONSTRAINT rp\_IngredientStock\_FK2 FOREIGN KEY (rp\_IngredientStoreID) REFERENCES rp\_IngredientStore (rp\_IngredientStoreID)

);

CREATE TABLE rp\_IngredientStockUpdate

(

rp\_IngredientStockUpdateID int NOT NULL IDENTITY

, rp\_IngredientStockID int NOT NULL

, UpdatedDate datetime default GETDATE() NOT NULL

-- place constraints

, CONSTRAINT rp\_IngredientStockUpdate\_PK PRIMARY KEY (rp\_IngredientStockUpdateID)

, CONSTRAINT rp\_IngredientStockUpdate\_FK1 FOREIGN KEY (rp\_IngredientStockID) REFERENCES rp\_IngredientStock (rp\_IngredientStockID)

);

CREATE TABLE rp\_MealModel

(

rp\_MealModelID int NOT NULL IDENTITY

, MealModelName varchar(10) NOT NULL

, MealModelDescription varchar(50)

-- place constraints

, CONSTRAINT rp\_MealModel\_PK PRIMARY KEY (rp\_MealModelID)

);

CREATE TABLE rp\_MealModelRatio

(

rp\_MealModelRatioID int NOT NULL IDENTITY

, rp\_MealModelID int NOT NULL

, rp\_IngredientTypeID int NOT NULL

, MealModelTypeRatio decimal(6,2) NOT NULL

-- place constraints

, CONSTRAINT rp\_MealModelRatio\_PK PRIMARY KEY (rp\_MealModelRatioID)

, CONSTRAINT rp\_MealModelRatio\_FK1 FOREIGN KEY (rp\_MealModelID) REFERENCES rp\_MealModel (rp\_MealModelID)

, CONSTRAINT rp\_MealModelRatio\_FK2 FOREIGN KEY (rp\_IngredientTypeID) REFERENCES rp\_IngredientType (rp\_IngredientTypeID)

);

CREATE TABLE rp\_PetMealModel

(

rp\_PetMealModelID int NOT NULL IDENTITY

, rp\_PetID int NOT NULL

, rp\_MealModelID int NOT NULL

-- place constraints

, CONSTRAINT rp\_PetMealModel\_PK PRIMARY KEY (rp\_PetMealModelID)

, CONSTRAINT rp\_PetMealModel\_FK1 FOREIGN KEY (rp\_PetID) REFERENCES rp\_Pet (rp\_PetID)

, CONSTRAINT rp\_PetMealModel\_FK2 FOREIGN KEY (rp\_MealModelID) REFERENCES rp\_MealModel (rp\_MealModelID)

, CONSTRAINT rp\_PetMealModel\_U1 UNIQUE (rp\_PetID)

);

CREATE TABLE rp\_MealModelTypeAmount

(

rp\_MealModelTypeAmountID int NOT NULL IDENTITY

, rp\_PetMealModelID int NOT NULL

, rp\_IngredientTypeID int NOT NULL

, MealModelTypeAmount decimal(6,2) NOT NULL

-- place constraints

, CONSTRAINT rp\_MealModelTypeAmount\_PK PRIMARY KEY (rp\_MealModelTypeAmountID)

, CONSTRAINT rp\_MealModelTypeAmount\_FK1 FOREIGN KEY (rp\_PetMealModelID) REFERENCES rp\_PetMealModel (rp\_PetMealModelID)

, CONSTRAINT rp\_MealModelTypeAmount\_FK2 FOREIGN KEY (rp\_IngredientTypeID) REFERENCES rp\_IngredientType (rp\_IngredientTypeID)

);

CREATE TABLE rp\_MealPlanCall

(

rp\_MealPlanCallID int NOT NULL IDENTITY

, rp\_MealModelTypeAmountID int NOT NULL

, rp\_IngredientDetailID int NOT NULL

, IngredientContents decimal(3,2) NOT NULL

, MealPlanCallDate date NOT NULL

-- place constraints

, CONSTRAINT rp\_MealPlanCall\_PK PRIMARY KEY (rp\_MealPlanCallID)

, CONSTRAINT rp\_MealPlanCall\_FK1 FOREIGN KEY (rp\_MealModelTypeAmountID) REFERENCES rp\_MealModelTypeAmount (rp\_MealModelTypeAmountID)

, CONSTRAINT rp\_MealPlanCall\_FK2 FOREIGN KEY (rp\_IngredientDetailID) REFERENCES rp\_IngredientDetail (rp\_IngredientDetailID)

);

CREATE TABLE rp\_CompleteMealPlan

(

rp\_CompleteMealPlanID int NOT NULL IDENTITY

, rp\_PetID int NOT NULL

, SuggestedDate date NOT NULL

-- place constraints

, CONSTRAINT rp\_CompleteMealPlan\_PK PRIMARY KEY (rp\_CompleteMealPlanID)

, CONSTRAINT rp\_CompleteMealPlan\_FK1 FOREIGN KEY (rp\_PetID) REFERENCES rp\_Pet (rp\_PetID)

);

GO

CREATE TABLE rp\_MealModelPartAmount

(

rp\_MealModelPartAmountID int NOT NULL IDENTITY

, rp\_CompleteMealPlanID int NOT NULL

, rp\_MealPlanCallID int NOT NULL

, MealModelPartAmount decimal(6,2) NOT NULL

-- place constraints

, CONSTRAINT rp\_MealModelPartAmount\_PK PRIMARY KEY (rp\_MealModelPartAmountID)

, CONSTRAINT rp\_MealModelPartAmount\_FK1 FOREIGN KEY (rp\_CompleteMealPlanID) REFERENCES rp\_CompleteMealPlan (rp\_CompleteMealPlanID)

, CONSTRAINT rp\_MealModelPartAmount\_FK2 FOREIGN KEY (rp\_MealPlanCallID) REFERENCES rp\_MealPlanCall (rp\_MealPlanCallID)

);

GO

-----------------------------------------------------------------------------------------

-- create procedures

-- Add Owner procedures

CREATE OR ALTER PROCEDURE rp\_pro\_AddOwner (@firstName varchar(30), @lastName varchar(30), @email varchar(50))

AS

-- clarify there is same Email Address value

IF EXISTS

(

SELECT \* FROM rp\_Owner WHERE EmailAddress = @email

)

BEGIN

PRINT 'Unique value(=EmailAddress) existed'

RETURN (SELECT rp\_OwnerID FROM rp\_Owner WHERE EmailAddress = @email);

END

ELSE

BEGIN

INSERT INTO rp\_Owner (OwnerFirstName, OwnerLastName, EmailAddress)

VALUES (@firstName, @lastName, @email)

PRINT 'Inserted Owner'

RETURN SCOPE\_IDENTITY()

END

GO

-- Add Stock procedures

CREATE OR ALTER PROCEDURE rp\_pro\_AddStock (@email varchar(50), @storageName varchar(30))

AS

BEGIN

-- We have a owner email address but we need the owner ID

-- Declare a variable to hold the ID

DECLARE @ownerID int

SELECT @ownerID = rp\_OwnerID FROM rp\_Owner

WHERE EmailAddress = @email

-- Add the row

INSERT INTO rp\_Stock(rp\_OwnerID, StorageName)

VALUES (@ownerID, @storageName)

RETURN SCOPE\_IDENTITY()

END

GO

-- Add Pet procedures

CREATE OR ALTER PROCEDURE rp\_pro\_AddPet (@email varchar(50), @petName varchar(20), @petType varchar(10), @DOB datetime)

AS

BEGIN

-- We have a owner email address but we need the owner ID

-- Declare a variable to hold the ID

DECLARE @ownerID int

SELECT @ownerID = rp\_OwnerID FROM rp\_Owner

WHERE EmailAddress = @email

-- Add the row

INSERT INTO rp\_Pet (rp\_OwnerID, PetName, PetType, DateOfBirth)

VALUES (@ownerID, @petName, @petType, @DOB)

RETURN SCOPE\_IDENTITY()

END

GO

-- Add Pet health info procedures

CREATE OR ALTER PROCEDURE rp\_pro\_AddPetHealthinfo (@email varchar(50), @petName varchar(20), @weight decimal(6,2), @weightCT int, @activity int, @spayed varchar(5))

AS

BEGIN

-- We have a pet name but we need the pet ID

-- Declare a variable to hold the ID

DECLARE @ownerID int

SELECT @ownerID = rp\_OwnerID FROM rp\_Owner

WHERE EmailAddress = @email

DECLARE @petID int

SELECT @petID = rp\_PetID FROM rp\_Pet WHERE rp\_OwnerID = @ownerID AND PetName = @petName

-- Add the row

INSERT INTO rp\_PetHealthinfo (rp\_PetID, PetWeight, rp\_Pet\_WeightCategoryID, rp\_Pet\_ActivityRateID, Spayed)

VALUES (@petID, @weight, @weightCT, @activity, @spayed)

RETURN SCOPE\_IDENTITY()

END

GO

-- trigger that is fired whenever insert/update occurs against rp\_PetHealthinfo table

CREATE OR ALTER TRIGGER trg\_ins\_PetHealthinfo

ON rp\_PetHealthinfo

AFTER INSERT, UPDATE

AS

BEGIN

DECLARE @weight decimal(6,2)

, @arID int

, @energy decimal(6,2)

, @cal int

, @healthinfoID int

SELECT @weight = PetWeight FROM inserted decimal

SELECT @arID = rp\_Pet\_ActivityRateID FROM inserted

SELECT @energy = EnergyNeeds FROM rp\_Pet\_ActivityRate WHERE rp\_Pet\_ActivityRateID = @arID

SELECT @cal = ((30\*@weight)+70)\*@energy

SELECT @healthinfoID = rp\_PetHealthinfoID FROM inserted

INSERT INTO rp\_PetRequiredCalorie (

rp\_PetHealthinfoID,

PetRequiredCalorie

)

SELECT

@healthinfoID,

@cal

PRINT 'We successfully Fired Triggers for calculating pets required Calorie'

END

GO

-- Add ingredient nutrition (type,source) procedures

CREATE OR ALTER PROCEDURE rp\_pro\_AddNutritionSource (@type varchar(20), @source varchar(20), @calorie int, @protein int, @fat int, @carbs int, @fiber int, @sugar int)

AS

BEGIN

DECLARE @typeID int

SELECT @typeID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType = @type

DECLARE @detailID int

SELECT @detailID = rp\_IngredientDetailID FROM rp\_IngredientDetail

WHERE rp\_IngredientTypeID = @typeID AND IngredientSource = @source

-- Add the row

INSERT INTO rp\_IngredientNutritionFacts(rp\_IngredientDetailID, IngredientCalorie, IngredientProtein, IngredientFat, IngredientCarbs, IngredientFiber, IngredientSugar)

VALUES (@detailID, @calorie, @protein, @fat, @carbs, @fiber, @sugar)

RETURN SCOPE\_IDENTITY()

END

GO

-- Add ingredient nutrition (type,source,part) procedures

CREATE OR ALTER PROCEDURE rp\_pro\_AddNutritionPart (@type varchar(20), @source varchar(20), @part varchar(20), @calorie int, @protein int, @fat int, @carbs int, @fiber int, @sugar int)

AS

BEGIN

DECLARE @typeID int

SELECT @typeID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType = @type

DECLARE @detailID int

SELECT @detailID = rp\_IngredientDetailID FROM rp\_IngredientDetail

WHERE rp\_IngredientTypeID = @typeID AND IngredientSource = @source AND IngredientPart = @part

-- Add the row

INSERT INTO rp\_IngredientNutritionFacts(rp\_IngredientDetailID, IngredientCalorie, IngredientProtein, IngredientFat, IngredientCarbs, IngredientFiber, IngredientSugar)

VALUES (@detailID, @calorie, @protein, @fat, @carbs, @fiber, @sugar)

RETURN SCOPE\_IDENTITY()

END

GO

-- Add ingredient price info into store (type,source) procedures

CREATE OR ALTER PROCEDURE rp\_pro\_AddIngredientSourceIntoStore (@storeN varchar(30), @type varchar(20), @source varchar(20), @price decimal(6,2))

AS

BEGIN

DECLARE @storeID int

SELECT @storeID = rp\_StoreID FROM rp\_Store

WHERE StoreName = @storeN

DECLARE @typeID int

SELECT @typeID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType = @type

DECLARE @detailID int

SELECT @detailID = rp\_IngredientDetailID FROM rp\_IngredientDetail

WHERE rp\_IngredientTypeID = @typeID AND IngredientSource = @source

-- Add the row

INSERT INTO rp\_IngredientStore(rp\_StoreID, rp\_IngredientDetailID, IngredientPricePer100g)

VALUES (@storeID, @detailID, @price)

RETURN SCOPE\_IDENTITY()

END

GO

-- Add ingredient price info into store (type,source,part) procedures

CREATE OR ALTER PROCEDURE rp\_pro\_AddIngredientPartIntoStore (@storeN varchar(30), @type varchar(20), @source varchar(20), @part varchar(20), @price decimal(6,2))

AS

BEGIN

DECLARE @storeID int

SELECT @storeID = rp\_StoreID FROM rp\_Store

WHERE StoreName = @storeN

DECLARE @typeID int

SELECT @typeID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType = @type

DECLARE @detailID int

SELECT @detailID = rp\_IngredientDetailID FROM rp\_IngredientDetail

WHERE rp\_IngredientTypeID = @typeID AND IngredientSource = @source AND IngredientPart = @part

-- Add the row

INSERT INTO rp\_IngredientStore(rp\_StoreID, rp\_IngredientDetailID, IngredientPricePer100g)

VALUES (@storeID, @detailID, @price)

RETURN SCOPE\_IDENTITY()

END

GO

-- Add ingredient into stock procedures

CREATE OR ALTER PROCEDURE rp\_pro\_AddIngredientIntoStock

(@email varchar(50), @stkName varchar(30), @storeN varchar(30), @type varchar(20), @source varchar(20), @part varchar(20) = NULL, @amount int, @date datetime = NULL)

AS

BEGIN

DECLARE @stkID int

SELECT @stkID = rp\_StockID FROM rp\_Stock

WHERE rp\_OwnerID = (SELECT rp\_OwnerID FROM rp\_Owner WHERE EmailAddress = @email) AND StorageName = @stkName

DECLARE @strID int

SELECT @strID = rp\_StoreID FROM rp\_Store WHERE StoreName = @storeN

DECLARE @typeID int

SELECT @typeID = rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = @type

DECLARE @detailID int

SELECT @detailID = rp\_IngredientDetailID FROM rp\_IngredientDetail

WHERE rp\_IngredientTypeID = @typeID AND IngredientSource = @source OR IngredientPart = @part

DECLARE @ingstrID int

SELECT @ingstrID = rp\_IngredientStoreID FROM rp\_IngredientStore WHERE rp\_StoreID = @strID AND rp\_IngredientDetailID = @detailID

-- if condision for date value

IF @date IS NULL

BEGIN SET @date = GETDATE()

END

-- Add the row

INSERT INTO rp\_IngredientStock(rp\_StockID, rp\_IngredientStoreID, IngredientAmount, StoredDate)

VALUES (@stkID, @ingstrID, @amount, @date)

RETURN SCOPE\_IDENTITY()

END

GO

-- trigger that is fired whenever update occurs against rp\_IngredientStock table

CREATE TRIGGER trg\_upd\_IngredientStock

ON rp\_IngredientStock

FOR UPDATE

AS

BEGIN

INSERT INTO rp\_IngredientStockUpdate (

rp\_IngredientStockID,

UpdatedDate

)

SELECT

rp\_IngredientStockID,

GETDATE()

FROM inserted

END

GO

-- trigger that is fired when specific update (ingredient amount is updated to 0) occurs against rp\_IngredientStock table

CREATE TRIGGER trg\_upd2\_IngredientStock

ON rp\_IngredientStock

AFTER UPDATE

AS

BEGIN

SET NOCOUNT ON;

-- specific update = ingredient amount updated to 0g

UPDATE rp\_IngredientStock SET Finished = 'Y'

FROM rp\_IngredientStock t

INNER JOIN inserted i on t.rp\_IngredientStockID = i.rp\_IngredientStockID

AND i.IngredientAmount = 0

END

GO

-- Add meal model type amount by calcultaing within the data we already have

-- for BARF meal model

CREATE OR ALTER PROCEDURE rp\_pro\_AddMealModelTypeAmount\_BARF (@petName varchar(20))

AS

BEGIN

DECLARE @mealmodelID int

SELECT @mealmodelID = rp\_PetMealModelID FROM rp\_PetMealModel

WHERE rp\_PetID = (SELECT rp\_PetID FROM rp\_Pet WHERE PetName = @petName)

-- declare type1:7 from BARF model

DECLARE @type1ID int

SELECT @type1ID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType ='Muscle meat'

DECLARE @type2ID int

SELECT @type2ID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType ='Edible bone'

DECLARE @type3ID int

SELECT @type3ID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType ='Organ'

DECLARE @type4ID int

SELECT @type4ID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType ='Liver'

DECLARE @type5ID int

SELECT @type5ID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType ='Vegetable'

DECLARE @type6ID int

SELECT @type6ID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType ='Fruits'

DECLARE @type7ID int

SELECT @type7ID = rp\_IngredientTypeID FROM rp\_IngredientType

WHERE IngredientType ='Seeds/Nuts'

-- declare required calorie for pet

DECLARE @cal int

SELECT @cal = PetRequiredCalorie FROM rp\_PetRequiredCalorie

WHERE rp\_PetHealthinfoID = (SELECT rp\_PetHealthinfoID FROM rp\_PetHealthinfo WHERE rp\_PetID =

(SELECT rp\_PetID FROM rp\_Pet WHERE PetName = @petName))

-- declare ingredient amount of each type

DECLARE @t1amount decimal(6,2)

SELECT @t1amount = @cal \* (SELECT MealModelTypeRatio FROM rp\_MealModelRatio WHERE rp\_IngredientTypeID = @type1ID)

DECLARE @t2amount decimal(6,2)

SELECT @t2amount = @cal \* (SELECT MealModelTypeRatio FROM rp\_MealModelRatio WHERE rp\_IngredientTypeID = @type2ID)

DECLARE @t3amount decimal(6,2)

SELECT @t3amount = @cal \* (SELECT MealModelTypeRatio FROM rp\_MealModelRatio WHERE rp\_IngredientTypeID = @type3ID)

DECLARE @t4amount decimal(6,2)

SELECT @t4amount = @cal \* (SELECT MealModelTypeRatio FROM rp\_MealModelRatio WHERE rp\_IngredientTypeID = @type4ID)

DECLARE @t5amount decimal(6,2)

SELECT @t5amount = @cal \* (SELECT MealModelTypeRatio FROM rp\_MealModelRatio WHERE rp\_IngredientTypeID = @type5ID)

DECLARE @t6amount decimal(6,2)

SELECT @t6amount = @cal \* (SELECT MealModelTypeRatio FROM rp\_MealModelRatio WHERE rp\_IngredientTypeID = @type6ID)

DECLARE @t7amount decimal(6,2)

SELECT @t7amount = @cal \* (SELECT MealModelTypeRatio FROM rp\_MealModelRatio WHERE rp\_IngredientTypeID = @type7ID)

-- Add the row

INSERT INTO rp\_MealModelTypeAmount (rp\_PetMealModelID, rp\_IngredientTypeID, MealModelTypeAmount)

VALUES (@mealmodelID, @type1ID, @t1amount)

, (@mealmodelID, @type2ID, @t2amount)

, (@mealmodelID, @type3ID, @t3amount)

, (@mealmodelID, @type4ID, @t4amount)

, (@mealmodelID, @type5ID, @t5amount)

, (@mealmodelID, @type6ID, @t6amount)

, (@mealmodelID, @type7ID, @t7amount)

RETURN SCOPE\_IDENTITY()

END

GO

-- trigger that is fired when occurs against rp\_PetMealModel table

CREATE TRIGGER trg\_ins\_PetMealModel

ON rp\_PetMealModel

AFTER INSERT, UPDATE

AS

BEGIN

DECLARE @petN varchar(20)

SELECT @petN = PetName FROM rp\_Pet WHERE rp\_PetID = (SELECT rp\_PetID FROM inserted)

EXEC rp\_pro\_AddMealModelTypeAmount\_BARF @petN

PRINT 'We successfully Fired Triggers for calculating pets required ingredient type amount by type'

END

GO

-- trigger that is fired when occurs against rp\_PetMealModel table

CREATE OR ALTER TRIGGER trg\_ins1\_MealPlanCall

ON rp\_MealPlanCall

AFTER INSERT

AS

BEGIN

DECLARE @mmtaID int

, @petmmID int

, @petID int

, @calldate date

SELECT @mmtaID = rp\_MealModelTypeAmountID FROM inserted

SELECT @petmmID = rp\_PetMealModelID FROM rp\_MealModelTypeAmount WHERE rp\_MealModelTypeAmountID=@mmtaID

SELECT @petID = rp\_PetID FROM rp\_PetMealModel WHERE rp\_PetMealModelID = @petmmID

SELECT @calldate = MealPlanCallDate FROM inserted

-- if condition

IF NOT EXISTS (SELECT rp\_CompleteMealPlanID FROM rp\_CompleteMealPlan WHERE rp\_PetID = @petID AND SuggestedDate = @calldate)

BEGIN

INSERT INTO rp\_CompleteMealPlan (rp\_PetID, SuggestedDate)

SELECT @petID, @calldate

PRINT 'We successfully Fired Triggers for inserting raw into rp\_CompleteMealPlan'

END -- if END

END

GO

-- trigger that is fired when insert occurs against rp\_MealPlanCall table

-- Add meal model part amount by calcultaing within the data we already have

CREATE OR ALTER TRIGGER trg\_ins2\_MealPlanCall

ON rp\_MealPlanCall

AFTER INSERT

AS

BEGIN

DECLARE @ingDID int

, @mpcID int

, @ingCon decimal(3,2)

, @mmtaID int

, @petmmID int

, @petID int

, @commpID int

, @requiredTcal int

, @calforingD int

, @ingcal int

, @mmpa decimal(6,2)

SELECT @ingDID = rp\_IngredientDetailID FROM inserted

SELECT @mpcID = rp\_MealPlanCallID FROM inserted

SELECT @ingCon = IngredientContents FROM inserted

SELECT @mmtaID = rp\_MealModelTypeAmountID FROM inserted

SELECT @petmmID = rp\_PetMealModelID FROM rp\_MealModelTypeAmount WHERE rp\_MealModelTypeAmountID = @mmtaID

SELECT @petID = rp\_PetID FROM rp\_PetMealModel WHERE rp\_PetMealModelID = @petmmID

SELECT @commpID = rp\_CompleteMealPlanID FROM rp\_CompleteMealPlan WHERE rp\_PetID = @petID AND SuggestedDate = (SELECT MealPlanCallDate FROM inserted)

SELECT @requiredTcal = MealModelTypeAmount FROM rp\_MealModelTypeAmount WHERE rp\_MealModelTypeAmountID = @mmtaID

SELECT @calforingD = @requiredTcal \* @ingCon

SELECT @ingcal = IngredientCalorie FROM rp\_IngredientNutritionFacts WHERE rp\_IngredientDetailID = @ingDID

SELECT @mmpa = @calforingD\*100/@ingcal

INSERT INTO rp\_MealModelPartAmount (

rp\_CompleteMealPlanID,

rp\_MealPlanCallID,

MealModelPartAmount

)

SELECT

@commpID,

@mpcID,

@mmpa

PRINT 'We successfully Fired Triggers for calculating pets required amount for ingredient'

END

GO

CREATE OR ALTER PROCEDURE rp\_pro\_updIngredientIntoStock (@stkID int, @ingstrID int, @amount decimal(6,2))

AS

BEGIN

DECLARE @amountexist decimal(6,2)

SELECT @amountexist = IngredientAmount FROM rp\_IngredientStock

WHERE rp\_IngredientStockID = @stkID AND rp\_IngredientStoreID = @ingstrID

-- update stock's ingredient amount

UPDATE rp\_IngredientStock SET IngredientAmount = @amountexist-@amount

WHERE rp\_IngredientStockID = @stkID AND rp\_IngredientStoreID = @ingstrID

END

GO

-----------------------------------------------------------------------------------------

-- INSERT RECORD INTO TABLE;

-- insert weight category

INSERT INTO rp\_Pet\_WeightCategory(WeightCategory)

VALUES

('UnderWeight'),('Ideal'),('OverWeight');

GO

-- insert activity rate

INSERT INTO rp\_Pet\_ActivityRate(ActivityLevel, EnergyNeeds)

VALUES

('Low activity -Dog', 1),('Moderate activity -Dog', 1.3),('Average active -Dog', 1.5),('High intensity active -Dog',1.7),

('Low activity -Cat', 1),('Neutered -Cat', 1.2),('Average active -Cat', 1.4);

GO

-- insert store

INSERT INTO rp\_Store(StoreName)

VALUES

('Aeon awase'),('Rycom'),('Safeway'),('Whole Foods Market');

GO

-- insert owner

EXEC rp\_pro\_AddOwner 'Bomin', 'Powers', 'bominp@abc.com'

EXEC rp\_pro\_AddOwner 'James', 'Smith', 'james@abc.com'

EXEC rp\_pro\_AddOwner 'Maria', 'Garcia', 'maria@abc.com'

EXEC rp\_pro\_AddOwner 'Robert', 'Johnson', 'robert@abc.com'

EXEC rp\_pro\_AddOwner 'Jennifer', 'Brown', 'jennifer@abc.com'

EXEC rp\_pro\_AddOwner 'Michael', 'Jones', 'michael@abc.com'

EXEC rp\_pro\_AddOwner 'Linda', 'Miller', 'linda@abc.com'

EXEC rp\_pro\_AddOwner 'William', 'Davis', 'william@abc.com'

EXEC rp\_pro\_AddOwner 'Jose', 'Rodriguez', 'jose@abc.com'

EXEC rp\_pro\_AddOwner 'Miguel', 'Martinez', 'miguel@abc.com'

EXEC rp\_pro\_AddOwner 'Barbara', 'Wilson', 'barbara@abc.com'

EXEC rp\_pro\_AddOwner 'Karen', 'Anderson', 'karen@abc.com'

EXEC rp\_pro\_AddOwner 'Richard', 'Moore', 'richard@abc.com'

EXEC rp\_pro\_AddOwner 'Jessica', 'Jackson', 'jessica@abc.com'

EXEC rp\_pro\_AddOwner 'Christopher', 'Martin', 'christopher@abc.com'

EXEC rp\_pro\_AddOwner 'Sandra', 'Lee', 'sandra@abc.com'

EXEC rp\_pro\_AddOwner 'Anthony', 'Thompson', 'anthony@abc.com'

EXEC rp\_pro\_AddOwner 'Donald', 'White', 'donald@abc.com'

EXEC rp\_pro\_AddOwner 'Emily', 'Harris', 'emily@abc.com'

EXEC rp\_pro\_AddOwner 'Paul', 'Lewis', 'paul@abc.com'

GO

--form made from Access to enter in new customer& their pets

Table

Description automatically generated

-- insert stock

EXEC rp\_pro\_AddStock 'bominp@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'james@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'maria@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'robert@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'jennifer@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'michael@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'linda@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'william@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'jose@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'miguel@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'barbara@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'karen@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'richard@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'jessica@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'christopher@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'sandra@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'anthony@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'donald@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'emily@abc.com', 'Ref1'

EXEC rp\_pro\_AddStock 'paul@abc.com', 'Ref1'

GO

-- insert pet

EXEC rp\_pro\_AddPet 'bominp@abc.com', 'Kinako', 'Dog', '2020/5/12'

EXEC rp\_pro\_AddPet 'bominp@abc.com', 'Porsche', 'Cat', '2016/4/27'

EXEC rp\_pro\_AddPet 'bominp@abc.com', 'Rati', 'Cat', '2016/4/27'

EXEC rp\_pro\_AddPet 'james@abc.com', 'Max', 'Dog', '2010/7/01'

EXEC rp\_pro\_AddPet 'maria@abc.com', 'Charlie', 'Cat', '2020/1/10'

EXEC rp\_pro\_AddPet 'maria@abc.com', 'Sammy', 'Cat', '2016/5/10'

EXEC rp\_pro\_AddPet 'maria@abc.com', 'Luna', 'Cat', '2009/4/5'

EXEC rp\_pro\_AddPet 'robert@abc.com', 'Murphy', 'Dog', '2019/5/01'

EXEC rp\_pro\_AddPet 'jennifer@abc.com', 'Molly', 'Dog', '2017/2/28'

EXEC rp\_pro\_AddPet 'jennifer@abc.com', 'Panda', 'Cat', '2019/10/30'

EXEC rp\_pro\_AddPet 'linda@abc.com', 'Lola', 'Dog', '2015/8/10'

EXEC rp\_pro\_AddPet 'william@abc.com', 'Cooper', 'Dog', '2013/4/12'

EXEC rp\_pro\_AddPet 'jose@abc.com', 'Ruby', 'Dog', '2014/9/15'

EXEC rp\_pro\_AddPet 'jose@abc.com', 'Annie', 'Dog', '2014/9/15'

EXEC rp\_pro\_AddPet 'miguel@abc.com', 'Teddy', 'Dog', '2019/12/20'

EXEC rp\_pro\_AddPet 'barbara@abc.com', 'Oliver', 'Dog', '2018/3/25'

EXEC rp\_pro\_AddPet 'karen@abc.com', 'Leo', 'Cat', '2020/5/12'

EXEC rp\_pro\_AddPet 'richard@abc.com', 'Bella', 'Dog', '2017/11/12'

EXEC rp\_pro\_AddPet 'jessica@abc.com', 'Duke', 'Dog', '2013/1/2'

EXEC rp\_pro\_AddPet 'jessica@abc.com', 'Riley', 'Dog', '2015/8/19'

EXEC rp\_pro\_AddPet 'jessica@abc.com', 'Lily', 'Dog', '2020/1/15'

EXEC rp\_pro\_AddPet 'jessica@abc.com', 'Nala', 'Dog', '2021/3/5'

EXEC rp\_pro\_AddPet 'christopher@abc.com', 'Zeus', 'Cat', '2010/4/2'

EXEC rp\_pro\_AddPet 'sandra@abc.com', 'Hank', 'Dog', '2017/6/25'

EXEC rp\_pro\_AddPet 'anthony@abc.com', 'Mia', 'Cat', '2014/4/10'

EXEC rp\_pro\_AddPet 'anthony@abc.com', 'Moose', 'Cat', '2018/7/6'

EXEC rp\_pro\_AddPet 'anthony@abc.com', 'Nova', 'Cat', '2020/12/10'

EXEC rp\_pro\_AddPet 'donald@abc.com', 'Lucky', 'Dog', '2017/6/12'

EXEC rp\_pro\_AddPet 'emily@abc.com', 'Lexi', 'Dog', '2019/9/15'

EXEC rp\_pro\_AddPet 'emily@abc.com', 'Remi', 'Dog', '2017/2/10'

EXEC rp\_pro\_AddPet 'paul@abc.com', 'Baxter', 'Dog', '2018/8/8'

GO

-- insert pet health info

EXEC rp\_pro\_AddPetHealthinfo 'bominp@abc.com','Kinako', 7.8, 2, 2, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'bominp@abc.com','Porsche', 3.9, 3, 5, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'bominp@abc.com','Rati', 4, 2, 6, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'james@abc.com','Max', 35, 2, 3, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'maria@abc.com','Charlie', 5.4, 2, 6, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'maria@abc.com','Sammy', 5.2, 2, 6, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'maria@abc.com','Luna', 7.6, 2, 6, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'robert@abc.com','Murphy', 25, 2, 2, 'NO'

EXEC rp\_pro\_AddPetHealthinfo 'jennifer@abc.com', 'Molly', 12, 3, 1, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'jennifer@abc.com', 'Panda', 3, 1, 6, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'linda@abc.com', 'Lola', 22, 2, 4, 'NO'

EXEC rp\_pro\_AddPetHealthinfo 'william@abc.com', 'Cooper', 24, 3, 1, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'jose@abc.com', 'Ruby', 17, 2, 2, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'jose@abc.com', 'Annie', 5, 2, 2, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'miguel@abc.com', 'Teddy', 30, 2, 4, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'barbara@abc.com', 'Oliver', 36, 3, 2, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'karen@abc.com', 'Leo', 7, 3, 5, 'NO'

EXEC rp\_pro\_AddPetHealthinfo 'richard@abc.com', 'Bella', 14, 2, 4, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'jessica@abc.com', 'Duke', 31, 2, 4, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'jessica@abc.com', 'Riley', 28, 2, 4, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'jessica@abc.com', 'Lily', 20, 2, 4, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'jessica@abc.com', 'Nala', 34, 2, 4, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'christopher@abc.com', 'Zeus', 6.5, 2, 6, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'sandra@abc.com', 'Hank', 43, 2, 4, 'NO'

EXEC rp\_pro\_AddPetHealthinfo 'anthony@abc.com', 'Mia', 4.5, 2, 6, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'anthony@abc.com', 'Moose', 5.8, 2, 6, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'anthony@abc.com', 'Nova', 6.2, 3, 5, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'donald@abc.com', 'Lucky', 42, 2, 4, 'NO'

EXEC rp\_pro\_AddPetHealthinfo 'emily@abc.com', 'Lexi', 38, 2, 4, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'emily@abc.com', 'Remi', 4, 2, 3, 'YES'

EXEC rp\_pro\_AddPetHealthinfo 'paul@abc.com', 'Baxter', 36, 2, 4, 'NO'

GO

/\*-- Verify that the PetHealthinfo trigger for calculating the required calories works well

SELECT

rp\_Pet.PetName

, rp\_PetRequiredCalorie.PetRequiredCalorie

FROM rp\_PetHealthinfo

JOIN rp\_Pet ON rp\_PetHealthinfo.rp\_PetID = rp\_Pet.rp\_PetID

JOIN rp\_PetRequiredCalorie ON rp\_PetHealthinfo.rp\_PetHealthinfoID = rp\_PetRequiredCalorie.rp\_PetHealthinfoID

\*/

-- insert ingredient type

INSERT INTO rp\_IngredientType(IngredientType)

VALUES ('Muscle meat'), ('Edible bone'), ('Organ'), ('Liver'), ('Vegetable'), ('Fruits'), ('Seeds/Nuts')

-- insert ingredient detail

-- Muscle meat--

INSERT INTO rp\_IngredientDetail (rp\_IngredientTypeID, IngredientSource)

VALUES ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Muscle meat'), 'Chicken')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Muscle meat'), 'Pork')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Muscle meat'), 'Beef')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Muscle meat'), 'Rabbit')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Muscle meat'), 'Turkey')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Muscle meat'), 'Lamb')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Muscle meat'), 'Goat')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Muscle meat'), 'Duck')

GO

-- Edible bone--

INSERT INTO rp\_IngredientDetail (rp\_IngredientTypeID, IngredientSource, IngredientPart)

VALUES ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Edible bone'), 'Chicken' , 'Wing')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Edible bone'), 'Duck' , 'Wing')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Edible bone'), 'Chicken' , 'Neck')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Edible bone'), 'Turkey' , 'Neck')

GO

-- Organ--

INSERT INTO rp\_IngredientDetail (rp\_IngredientTypeID, IngredientSource, IngredientPart)

VALUES ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Organ'), 'Beef' , 'Kidney')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Organ'), 'Beef' , 'Spleen')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Organ'), 'Chicken' , 'Heart')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Organ'), 'Beef' , 'Heart')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Organ'), 'Pork' , 'Heart')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Organ'), 'Pork' , 'Lung')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Organ'), 'Beef' , 'Lung')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Organ'), 'Lamb' , 'Lung')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Organ'), 'Chicken' , 'Gizzard')

GO

-- Liver --

INSERT INTO rp\_IngredientDetail (rp\_IngredientTypeID, IngredientSource)

VALUES ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Liver'), 'Chicken')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Liver'), 'Pork')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Liver'), 'Beef')

GO

-- Vegetable --

INSERT INTO rp\_IngredientDetail (rp\_IngredientTypeID, IngredientSource)

VALUES ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Vegetable'), 'Broccoli')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Vegetable'), 'Spinach')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Vegetable'), 'Kale')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Vegetable'), 'Carrot')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Vegetable'), 'Cauliflower')

GO

-- Fruits --

INSERT INTO rp\_IngredientDetail (rp\_IngredientTypeID, IngredientSource)

VALUES ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Fruits'), 'Blueberries')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Fruits'), 'Blackberries')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Fruits'), 'Watermelon')

GO

-- Seeds/Nuts --

INSERT INTO rp\_IngredientDetail (rp\_IngredientTypeID, IngredientSource)

VALUES ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Seeds/Nuts'), 'Sunflower Seeds')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Seeds/Nuts'), 'Pumpkin Seeds')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Seeds/Nuts'), 'Almonds')

, ((SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Seeds/Nuts'), 'Brazil Nuts')

GO

-- insert nutrition facts

-- Muscle meat--

EXEC rp\_pro\_AddNutritionSource 'Muscle meat', 'Chicken', 172, 20, 9, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionSource 'Muscle meat', 'Pork', 134, 21, 4, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionSource 'Muscle meat', 'Beef', 178, 28, 6, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionSource 'Muscle meat', 'Rabbit', 114, 21, 2, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionSource 'Muscle meat', 'Turkey', 157, 21, 7, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionSource 'Muscle meat', 'Lamb', 112, 15, 5, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionSource 'Muscle meat', 'Goat', 143, 27, 3, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionSource 'Muscle meat', 'Duck', 123, 19, 4, NULL, NULL, NULL

-- Edible bone--

EXEC rp\_pro\_AddNutritionPart 'Edible bone', 'Chicken', 'Wing', 191, 17, 12, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Edible bone', 'Duck', 'Wing', 84, 20, 0, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Edible bone', 'Chicken', 'Neck', 213, 18, 14, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Edible bone', 'Turkey', 'Neck', 162, 22, 7, NULL, NULL, NULL

-- Organ--

EXEC rp\_pro\_AddNutritionPart 'Organ', 'Beef', 'Kidney', 99, 17, 3, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Organ', 'Beef', 'Spleen', 105, 18, 3, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Organ', 'Chicken', 'Heart', 153, 15, 9, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Organ', 'Beef', 'Heart', 112, 17, 3, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Organ', 'Pork', 'Heart', 118, 17, 4, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Organ', 'Pork', 'Lung', 85, 14, 2, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Organ', 'Beef', 'Lung', 92, 16, 2, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Organ', 'Lamb', 'Lung', 95, 16, 2, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionPart 'Organ', 'Chicken', 'Gizzard', 94, 17, 2, NULL, NULL, NULL

-- Liver --

EXEC rp\_pro\_AddNutritionSource 'Liver', 'Chicken', 119, 16, 4, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionSource 'Liver', 'Pork', 134, 21, 3, NULL, NULL, NULL

EXEC rp\_pro\_AddNutritionSource 'Liver', 'Beef', 135, 20, 3, NULL, NULL, NULL

-- Vegetable --

EXEC rp\_pro\_AddNutritionSource 'Vegetable', 'Broccoli', 34, 2, 0, 6, 2, 1

EXEC rp\_pro\_AddNutritionSource 'Vegetable', 'Spinach', 23, 2, 0, 3, 2, 0

EXEC rp\_pro\_AddNutritionSource 'Vegetable', 'Kale', 49, 4, 0, 8, 3, 2

EXEC rp\_pro\_AddNutritionSource 'Vegetable', 'Carrot', 41, 0, 0, 8, 3, 3

EXEC rp\_pro\_AddNutritionSource 'Vegetable', 'Cauliflower', 25, 1, 0, 4, 2, 1

-- Fruits --

EXEC rp\_pro\_AddNutritionSource 'Fruits', 'Blueberries', 57, 0, 0, 14, 2, 9

EXEC rp\_pro\_AddNutritionSource 'Fruits', 'Blackberries', 43, 1, 0, 9, 5, 4

EXEC rp\_pro\_AddNutritionSource 'Fruits', 'Watermelon', 30, 0, 0, 7, 0, 6

-- Seeds/Nuts --

EXEC rp\_pro\_AddNutritionSource 'Seeds/Nuts', 'Sunflower Seeds', 546, 19, 49, 15, 9, 2

EXEC rp\_pro\_AddNutritionSource 'Seeds/Nuts', 'Pumpkin Seeds', 446, 18, 19, 53, 18, 0

EXEC rp\_pro\_AddNutritionSource 'Seeds/Nuts', 'Almonds', 598, 20, 52, 21, 10, 4

EXEC rp\_pro\_AddNutritionSource 'Seeds/Nuts', 'Brazil Nuts', 659, 14, 67, 11, 7, 2

GO

-- insert price info into store

-- Aeon awase

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Muscle meat', 'Chicken', 1.35

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Muscle meat', 'Pork', 1.4

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Muscle meat', 'Beef', 1.67

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Muscle meat', 'Rabbit', 2

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Muscle meat', 'Turkey', 1.45

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Muscle meat', 'Lamb', 1.8

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Muscle meat', 'Goat', 1.9

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Muscle meat', 'Duck', 1.4

GO

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Edible bone', 'Chicken', 'Wing', 1.2

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Edible bone', 'Duck', 'Wing', 1.35

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Edible bone', 'Chicken', 'Neck', 1

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Edible bone', 'Turkey', 'Neck', 1.11

GO

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Organ', 'Beef', 'Kidney', 1.3

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Organ', 'Beef', 'Spleen', 1.7

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Organ', 'Chicken', 'Heart', 0.8

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Organ', 'Beef', 'Heart', 1.1

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Organ', 'Pork', 'Heart', 0.7

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Organ', 'Pork', 'Lung', 0.8

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Organ', 'Beef', 'Lung', 1.1

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Organ', 'Lamb', 'Lung', 1.7

EXEC rp\_pro\_AddIngredientPartIntoStore 'Aeon awase', 'Organ', 'Chicken', 'Gizzard', 0.7

GO

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Liver', 'Chicken', 1.2

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Liver', 'Pork', 1.1

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Liver', 'Beef', 1.4

GO

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Vegetable', 'Broccoli', 1.1

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Vegetable', 'Spinach', 1.0

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Vegetable', 'Kale', 1.3

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Vegetable', 'Carrot', 1.0

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Vegetable', 'Cauliflower', 1.1

GO

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Fruits', 'Blueberries', 4.1

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Fruits', 'Blackberries', 3.8

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Fruits', 'Watermelon', 1.0

GO

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Seeds/Nuts', 'Sunflower Seeds', 1.25

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Seeds/Nuts', 'Pumpkin Seeds', 1.25

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Seeds/Nuts', 'Almonds', 2.1

EXEC rp\_pro\_AddIngredientSourceIntoStore 'Aeon awase', 'Seeds/Nuts', 'Brazil Nuts', 3.5

-- insert ingredient into stock

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Muscle meat', 'Chicken', NULL, 600, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Muscle meat', 'Beef', NULL, 800, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Edible bone', 'Chicken', 'Wing', 300, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Edible bone', 'Chicken', 'Neck', 300, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Organ', 'Chicken', 'Gizzard', 200, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Organ', 'Beef', 'Heart', 100, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Liver', 'Chicken', NULL, 300, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Vegetable', 'Broccoli', NULL, 300, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Vegetable', 'Spinach', NULL, 300, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Vegetable', 'Carrot', NULL, 300, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Fruits', 'Watermelon', NULL, 300, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Fruits', 'Blueberries', NULL, 300, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Seeds/Nuts', 'Sunflower Seeds', NULL, 100, '5/1/2021'

EXEC rp\_pro\_AddIngredientIntoStock 'bominp@abc.com', 'Ref1', 'Aeon awase', 'Seeds/Nuts', 'Almonds', NULL, 100, '5/1/2021'

GO

/\*-- Read rows in Ingredientstock

SELECT \* FROM rp\_IngredientStock

SELECT \* FROM rp\_IngredientStockUpdate

\*/

/\*-- Read rows in Pet and IngredientDetail tables to insert values in PetPreference

SELECT \* FROM rp\_Pet

SELECT \* FROM rp\_IngredientDetail

\*/

-- insert pet preference

INSERT INTO rp\_PetPreference(rp\_PetID, rp\_IngredientDetailID)

VALUES ((SELECT rp\_PetID FROM rp\_Pet WHERE PetName = 'Kinako'),1)

, (1,9), (1,3), (2,1), (2,6), (2,7), (2,25), (3,4), (3,6), (3,22), (3,26), (3,15), (3,23), (4,2), (4,25), (4,32), (4,20), (5,32), (5,33), (5,16)

, (5,10), (6,16), (6,4), (6,31), (6,8), (7,13), (7,34), (7,6), (7,9), (8,3), (8,5), (8,14), (8,8), (8,11), (9,32), (9,22), (9,28), (9,31), (10,7)

, (10,1), (10,8), (10,31), (11,2), (11,3), (11,20), (11,32), (12,16), (12,10), (12,4), (12,8), (12,2), (13,16), (13,5), (13,3), (13,28), (14,7), (14,20), (14,28)

, (14,32), (14,9), (15,2), (15,3), (15,8), (15,13), (16,4), (16,31), (16,5), (16,9), (16,3), (16,5), (16,11), (16,13), (16,12), (17,11), (17,12), (17,9), (17,3)

, (17,1), (18,8), (18,31), (18,2), (18,3), (18,20), (19,32), (19,16), (19,10), (19,4), (20,8), (20,2), (20,16), (21,5), (21,3), (21,28), (21,7), (22,20), (22,28)

, (22,32), (22,9), (23,2), (23,3), (23,8), (23,13), (24,4), (24,31), (25,5), (25,9), (25,3), (25,5), (26,11), (26,13), (26,12), (26,11), (26,12), (26,9), (27,3)

, (27,5), (27,9), (27,11), (28,3), (28,11), (28,28), (28,32), (29,2), (29,1), (29,11), (29,25), (29,33), (30,1), (30,28), (30,4), (31,11), (31,8), (31,5), (31,3)

, (4,9), (6,9), (15,9), (15,9), (28,9), (18,9), (16,9), (16,1), (6,1), (7,1), (8,1), (9,1), (9,11), (14,11), (5,11), (14,8), (30,8), (4,4),(17,4),(31,4),(27,4)

GO

-- insert meal model

INSERT INTO rp\_MealModel(MealModelName) VALUES('BARF')

GO

-- insert meal model ratio info

--BARF--

INSERT INTO rp\_MealModelRatio(rp\_MealModelID, rp\_IngredientTypeID, MealModelTypeRatio)

VALUES (1, (SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Muscle meat'), 0.7)

, (1, (SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Edible bone'), 0.1)

, (1, (SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Vegetable'), 0.07)

, (1, (SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Liver'), 0.05)

, (1, (SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Organ'), 0.05)

, (1, (SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Seeds/Nuts'), 0.02)

, (1, (SELECT rp\_IngredientTypeID FROM rp\_IngredientType WHERE IngredientType = 'Fruits'), 0.01)

GO

/\*-- Read rows in Pet and MealModel tables to insert values in PetMealModel

SELECT \* FROM rp\_Pet

SELECT \* FROM rp\_MealModel

\*/

-- insert pet's choice of meal model

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (1,1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (2, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (3, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (4, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (5, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (6, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (7, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (8, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (9, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (10, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (11, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (12, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (13, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (14, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (15, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (16, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (17, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (18, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (19, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (20, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (21, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (22, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (23, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (24, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (25, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (26, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (27, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (28, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (29, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (30, 1)

GO

INSERT INTO rp\_PetMealModel(rp\_PetID, rp\_MealModelID) VALUES (31, 1)

GO

/\*-- Read rows to verify that the PetMealModel trigger for calculating ingredient amount by ingredientType works well

SELECT

rp\_Pet.rp\_PetID AS petID

, rp\_Pet.PetName

, rp\_PetMealModel.rp\_PetMealModelID AS pmmID

, rp\_MealModelTypeAmount.rp\_MealModelTypeAmountID AS mmtaID

, rp\_IngredientType.IngredientType

, rp\_MealModelTypeAmount.MealModelTypeAmount

FROM rp\_Pet

LEFT JOIN rp\_PetMealModel ON rp\_PetMealModel.rp\_PetID = rp\_Pet.rp\_PetID

LEFT JOIN rp\_MealModelTypeAmount ON rp\_PetMealModel.rp\_PetMealModelID = rp\_MealModelTypeAmount.rp\_PetMealModelID

LEFT JOIN rp\_IngredientType ON rp\_MealModelTypeAmount.rp\_IngredientTypeID = rp\_IngredientType.rp\_IngredientTypeID

SELECT \* FROM rp\_IngredientDetail

\*/

-- insert meal plan call raws

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,1,0.5,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,3,0.5,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (2,9,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (3,21,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (4,22,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (5,25,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (6,31,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (7,35,1,'5/1/2021')

GO

--5/2/2021

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,1,0.3,'5/2/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,3,0.7,'5/2/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (2,9,1,'5/2/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (3,19,1,'5/2/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (4,23,1,'5/2/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (5,25,1,'5/2/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (6,32,1,'5/2/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (7,33,1,'5/2/2021')

GO

--5/3/2021

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,1,0.3,'5/3/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,8,0.7,'5/3/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (2,9,1,'5/3/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (3,19,1,'5/3/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (4,23,1,'5/3/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (5,25,1,'5/3/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (6,31,1,'5/3/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (7,33,1,'5/3/2021')

GO

--5/4/2021

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,1,0.3,'5/4/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,8,0.7,'5/4/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (2,9,1,'5/4/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (3,19,1,'5/4/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (4,23,1,'5/4/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (5,25,1,'5/4/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (6,31,1,'5/4/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (7,33,1,'5/4/2021')

GO

--5/5/2021

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,1,0.3,'5/5/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,8,0.7,'5/5/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (2,9,1,'5/5/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (3,19,1,'5/5/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (4,23,1,'5/5/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (5,25,1,'5/5/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (6,31,1,'5/5/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (7,33,1,'5/5/2021')

GO

--5/6/2021

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,1,0.3,'5/6/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,8,0.7,'5/6/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (2,9,1,'5/6/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (3,19,1,'5/6/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (4,23,1,'5/6/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (5,25,1,'5/6/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (6,31,1,'5/6/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (7,33,1,'5/6/2021')

GO

--5/7/2021

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,1,0.3,'5/7/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (1,8,0.7,'5/7/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (2,9,1,'5/7/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (3,19,1,'5/7/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (4,23,1,'5/7/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (5,25,1,'5/7/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (6,31,1,'5/7/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (7,33,1,'5/7/2021')

GO

--petID=2

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (8,1,0.5,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (8,4,0.7,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (9,11,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (10,19,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (11,23,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (12,25,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (13,31,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (14,33,1,'5/1/2021')

GO

--petID=3

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (15,3,0.5,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (15,7,0.7,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (16,9,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (17,14,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (18,22,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (19,25,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (20,30,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (21,33,1,'5/1/2021')

GO

--petID=4

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (22,4,0.5,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (22,6,0.7,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (23,10,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (24,15,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (25,23,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (26,26,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (27,31,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (28,34,1,'5/1/2021')

GO

--petID=5

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (29,2,0.5,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (29,7,0.7,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (30,11,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (31,15,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (32,23,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (33,26,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (34,31,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (35,34,1,'5/1/2021')

GO

--petID=6

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (36,3,0.5,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (36,1,0.7,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (37,11,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (38,16,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (39,23,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (40,28,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (41,32,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (42,36,1,'5/1/2021')

GO

--petID=7

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (43,3,0.5,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (43,1,0.7,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (44,11,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (45,16,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (46,23,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (47,28,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (48,32,1,'5/1/2021')

GO

INSERT INTO rp\_MealPlanCall (rp\_MealModelTypeAmountID, rp\_IngredientDetailID, IngredientContents, MealPlanCallDate) VALUES (49,36,1,'5/1/2021')

GO

/\*

SELECT \* FROM rp\_v\_MealPlanCallhelp WHERE petID=7

SELECT \* FROM rp\_IngredientDetail WHERE rp\_IngredientTypeID = 6

\*/

/\*-- Read rows to verify that the PetMealModel trigger for calculating ingredient amount by ingredientParts works well

SELECT

rp\_MealModelPartAmount.rp\_MealModelPartAmountID AS mmpaID

, rp\_IngredientType.IngredientType

, rp\_IngredientDetail.IngredientSource

, rp\_IngredientDetail.IngredientPart

, rp\_MealModelPartAmount.MealModelPartAmount

, rp\_CompleteMealPlan.SuggestedDate

, rp\_Pet.rp\_PetID AS petID

FROM rp\_MealModelPartAmount

LEFT JOIN rp\_CompleteMealPlan ON rp\_MealModelPartAmount.rp\_CompleteMealPlanID = rp\_CompleteMealPlan.rp\_CompleteMealPlanID

LEFT JOIN rp\_Pet ON rp\_CompleteMealPlan.rp\_PetID = rp\_Pet.rp\_PetID

JOIN rp\_MealPlanCall ON rp\_MealModelPartAmount.rp\_MealPlanCallID = rp\_MealPlanCall.rp\_MealPlanCallID

JOIN rp\_IngredientDetail ON rp\_MealPlanCall.rp\_IngredientDetailID = rp\_IngredientDetail.rp\_IngredientDetailID

JOIN rp\_IngredientType ON rp\_IngredientDetail.rp\_IngredientTypeID = rp\_IngredientType.rp\_IngredientTypeID

\*/

/\*-- to update stock's ingredient amount

SELECT \* FROM rp\_v\_UpdateIngredientStock

\*/

-- update stock's ingredient amount

EXEC rp\_pro\_updIngredientIntoStock 1,1,80

EXEC rp\_pro\_updIngredientIntoStock 2,3,77

EXEC rp\_pro\_updIngredientIntoStock 5,21,20

EXEC rp\_pro\_updIngredientIntoStock 7,22,15

EXEC rp\_pro\_updIngredientIntoStock 8,25,79

EXEC rp\_pro\_updIngredientIntoStock 14,35,1

--5/2

EXEC rp\_pro\_updIngredientIntoStock 1,1,47

EXEC rp\_pro\_updIngredientIntoStock 2,3,108

EXEC rp\_pro\_updIngredientIntoStock 6,16,20

EXEC rp\_pro\_updIngredientIntoStock 8,25,79

EXEC rp\_pro\_updIngredientIntoStock 11,32,10

EXEC rp\_pro\_updIngredientIntoStock 14,35,1

--5/3

EXEC rp\_pro\_updIngredientIntoStock 1,1,47

EXEC rp\_pro\_updIngredientIntoStock 6,16,20

EXEC rp\_pro\_updIngredientIntoStock 8,25,79

EXEC rp\_pro\_updIngredientIntoStock 13,33,1

GO

/\*--retrieve the stock

SELECT \* FROM rp\_v\_StockReport

\*/

-- create view

-- create view of pets and their owners

CREATE OR ALTER VIEW rp\_v\_OwnerPet AS

SELECT

rp\_Owner.rp\_OwnerID

, rp\_Owner.OwnerFirstName+rp\_Owner.OwnerLastName AS OwnerName

, PetName

, PetType

FROM rp\_Pet

JOIN rp\_Owner ON rp\_Pet.rp\_OwnerID = rp\_Owner.rp\_OwnerID

GO

-- Create a view to retrieve the stock

CREATE OR ALTER VIEW rp\_v\_StockReport AS

SELECT

rp\_Owner.OwnerFirstName + rp\_Owner.OwnerLastName AS OwnerName

, rp\_Stock.StorageName

, rp\_IngredientType.IngredientType

, rp\_IngredientStock.rp\_IngredientStockID

, rp\_IngredientStock.rp\_IngredientStoreID

, rp\_IngredientDetail.rp\_IngredientDetailID

, rp\_IngredientDetail.IngredientSource

, rp\_IngredientDetail.IngredientPart

, rp\_IngredientStock.IngredientAmount

, rp\_IngredientStock.StoredDate

, rp\_IngredientStockUpdate.UpdatedDate

, rp\_IngredientStock.Finished

FROM rp\_IngredientStock

JOIN rp\_Stock ON rp\_IngredientStock.rp\_StockID = rp\_Stock.rp\_StockID

JOIN rp\_Owner ON rp\_Stock.rp\_OwnerID = rp\_Owner.rp\_OwnerID

LEFT JOIN rp\_IngredientStockUpdate ON rp\_IngredientStock.rp\_IngredientStockID = rp\_IngredientStockUpdate.rp\_IngredientStockID

JOIN rp\_IngredientStore ON rp\_IngredientStock.rp\_IngredientStoreID = rp\_IngredientStore.rp\_IngredientStoreID

JOIN rp\_IngredientDetail ON rp\_IngredientStore.rp\_IngredientDetailID = rp\_IngredientDetail.rp\_IngredientDetailID

JOIN rp\_IngredientType ON rp\_IngredientDetail.rp\_IngredientTypeID = rp\_IngredientType.rp\_IngredientTypeID

GO

-- Create a view pet's prefrence ingredient

CREATE OR ALTER VIEW rp\_v\_PetPreferenceCount AS

SELECT

rp\_PetPreference.rp\_IngredientDetailID AS IngID

, IngredientType

, IngredientSource

, IngredientPart

, COUNT (\*) AS num\_Preference

FROM rp\_PetPreference

JOIN rp\_IngredientDetail ON rp\_PetPreference.rp\_IngredientDetailID = rp\_IngredientDetail.rp\_IngredientDetailID

JOIN rp\_IngredientType ON rp\_IngredientDetail.rp\_IngredientTypeID = rp\_IngredientType.rp\_IngredientTypeID

GROUP BY rp\_PetPreference.rp\_IngredientDetailID, IngredientType, IngredientSource, IngredientPart

GO

-- Create a view to help write meal plan call values

CREATE OR ALTER VIEW rp\_v\_MealPlanCallhelp AS

SELECT

rp\_Pet.rp\_PetID AS petID

, rp\_Pet.PetName

, rp\_PetMealModel.rp\_PetMealModelID AS pmmID

, rp\_MealModelTypeAmount.rp\_MealModelTypeAmountID AS mmtaID

, rp\_IngredientType.IngredientType

, rp\_MealModelTypeAmount.MealModelTypeAmount

FROM rp\_Pet

LEFT JOIN rp\_PetMealModel ON rp\_PetMealModel.rp\_PetID = rp\_Pet.rp\_PetID

LEFT JOIN rp\_MealModelTypeAmount ON rp\_PetMealModel.rp\_PetMealModelID = rp\_MealModelTypeAmount.rp\_PetMealModelID

LEFT JOIN rp\_IngredientType ON rp\_MealModelTypeAmount.rp\_IngredientTypeID = rp\_IngredientType.rp\_IngredientTypeID

GO

-- Create a view to retrieve complete meal plan

CREATE OR ALTER VIEW rp\_v\_CompletePlans AS

SELECT

rp\_Pet.PetName

, rp\_CompleteMealPlan.rp\_CompleteMealPlanID AS cmpID

, SuggestedDate

, rp\_IngredientType.IngredientType

, rp\_IngredientDetail.rp\_IngredientDetailID

, rp\_IngredientDetail.IngredientSource

, rp\_IngredientDetail.IngredientPart

, rp\_MealModelPartAmount.MealModelPartAmount AS gram

FROM rp\_MealModelPartAmount

JOIN rp\_CompleteMealPlan ON rp\_MealModelPartAmount.rp\_CompleteMealPlanID = rp\_CompleteMealPlan.rp\_CompleteMealPlanID

JOIN rp\_Pet ON rp\_CompleteMealPlan.rp\_PetID = rp\_Pet.rp\_PetID

JOIN rp\_MealPlanCall ON rp\_MealModelPartAmount.rp\_MealPlanCallID = rp\_MealPlanCall.rp\_MealPlanCallID

JOIN rp\_IngredientDetail ON rp\_MealPlanCall.rp\_IngredientDetailID = rp\_IngredientDetail.rp\_IngredientDetailID

JOIN rp\_IngredientType ON rp\_IngredientDetail.rp\_IngredientTypeID = rp\_IngredientType.rp\_IngredientTypeID

GO

-- create a view to update stock's ingredient amount

CREATE OR ALTER VIEW rp\_v\_UpdateIngredientStock AS

SELECT

rp\_CompleteMealPlan.rp\_CompleteMealPlanID AS cmpID

, rp\_MealModelPartAmount.rp\_MealModelPartAmountID AS mmpaID

, SuggestedDate

, rp\_IngredientType.IngredientType

, rp\_IngredientDetail.IngredientSource

, rp\_IngredientDetail.IngredientPart

, rp\_IngredientStock.rp\_IngredientStockID AS ingskID

, rp\_IngredientStock.rp\_IngredientStoreID AS ingsrID

, rp\_MealModelPartAmount.MealModelPartAmount AS gram

FROM rp\_IngredientStore

JOIN rp\_IngredientStock ON rp\_IngredientStore.rp\_IngredientStoreID = rp\_IngredientStock.rp\_IngredientStoreID

JOIN rp\_IngredientDetail ON rp\_IngredientStore.rp\_IngredientDetailID = rp\_IngredientDetail.rp\_IngredientDetailID

JOIN rp\_IngredientType ON rp\_IngredientDetail.rp\_IngredientTypeID = rp\_IngredientType.rp\_IngredientTypeID

JOIN rp\_MealPlanCall ON rp\_IngredientDetail.rp\_IngredientDetailID = rp\_MealPlanCall.rp\_IngredientDetailID

RIGHT JOIN rp\_MealModelPartAmount ON rp\_MealPlanCall.rp\_MealPlanCallID = rp\_MealModelPartAmount.rp\_MealPlanCallID

RIGHT JOIN rp\_CompleteMealPlan ON rp\_MealModelPartAmount.rp\_CompleteMealPlanID = rp\_CompleteMealPlan.rp\_CompleteMealPlanID

GO

-- finally, pull results from the tables

**Data Question and Answers**

* What are the top 5 ingredients for preference by pet?

SELECT statements:

-- Create a view pet's prefrence ingredient

CREATE OR ALTER VIEW rp\_v\_PetPreferenceCount AS

SELECT

rp\_PetPreference.rp\_IngredientDetailID AS IngID

, IngredientType

, IngredientSource

, IngredientPart

, COUNT (\*) AS num\_Preference

FROM rp\_PetPreference

JOIN rp\_IngredientDetail ON rp\_PetPreference.rp\_IngredientDetailID = rp\_IngredientDetail.rp\_IngredientDetailID

JOIN rp\_IngredientType ON rp\_IngredientDetail.rp\_IngredientTypeID = rp\_IngredientType.rp\_IngredientTypeID

GROUP BY rp\_PetPreference.rp\_IngredientDetailID, IngredientType, IngredientSource, IngredientPart

GO

SELECT TOP 5 \* FROM rp\_v\_PetPreferenceCount

ORDER BY num\_Preference DESC

Table

Description automatically generated

Through the SQL query, top 5 ingredients for pets are 1. Chicken Wing 2. Lean beef 3. Chicken Neck 4. Lean chicken meat 5. Lean rabbit meat. Additionally, attached below is that all preference ingredient data as a bar chart.

A picture containing text, measuring stick, screenshot

Description automatically generated

* What is the average needs calorie by pet type?

SELECT statements:

SELECT

rp\_Pet.PetType

, AVG(PetRequiredCalorie) AS avgCalorie

FROM rp\_Pet

JOIN rp\_PetHealthinfo ON rp\_Pet.rp\_PetID = rp\_PetHealthinfo.rp\_PetID

JOIN rp\_PetRequiredCalorie ON rp\_PetHealthinfo.rp\_PetHealthinfoID = rp\_PetRequiredCalorie.rp\_PetHealthinfoID

GROUP BY PetType

GO

Graphical user interface, text, application

Description automatically generated

Chart, bar chart

Description automatically generated

* What is the average age by pet type and most common activity level for a pet?

SELECT statements:

Graphical user interface, application

Description automatically generatedSELECT

PetType

, AVG(DATEDIFF(YEAR, DateOfBirth, GETDATE())) AS avgAge

FROM rp\_Pet

GROUP BY PetType

>> average age for pet type ‘Dog’ is 4, as well as for ‘Cat’

SELECT statements:

SELECT

ActivityLevel

, COUNT(rp\_PetHealthinfo.rp\_Pet\_ActivityRateID) AS numofPets

FROM rp\_Pet\_ActivityRate

JOIN rp\_PetHealthinfo ON rp\_Pet\_ActivityRate.rp\_Pet\_ActivityRateID=rp\_PetHealthinfo.rp\_Pet\_ActivityRateID

GROUP BY ActivityLevel

ORDER BY numofPets DESC

Graphical user interface, text, application

Description automatically generated Chart

Description automatically generated

* How is the percentage divided between pets with spayed and pets without spayed by pet type?

SELECT statements:

SELECT

PetType

, COUNT(PetType) AS numPet

, COUNT(case when rp\_PetHealthinfo.Spayed = 'Yes' then 1 end) AS Spayed

FROM rp\_PetHealthinfo

JOIN rp\_Pet ON rp\_Pet.rp\_PetID = rp\_PetHealthinfo.rp\_PetID

GROUP BY PetType

Chart, pie chart

Description automatically generated

* What is the average daily raw food bill per pet? And how connected to their weight?  
  SELECT statements:

-- Create a view to retrieve complete meal plan

CREATE OR ALTER VIEW rp\_v\_CompletePlans AS

SELECT

rp\_Pet.PetName

, rp\_CompleteMealPlan.rp\_CompleteMealPlanID AS cmpID

, SuggestedDate

, rp\_IngredientType.IngredientType

, rp\_IngredientDetail.rp\_IngredientDetailID

, rp\_IngredientDetail.IngredientSource

, rp\_IngredientDetail.IngredientPart

, rp\_MealModelPartAmount.MealModelPartAmount AS gram

FROM rp\_MealModelPartAmount

JOIN rp\_CompleteMealPlan ON rp\_MealModelPartAmount.rp\_CompleteMealPlanID = rp\_CompleteMealPlan.rp\_CompleteMealPlanID

JOIN rp\_Pet ON rp\_CompleteMealPlan.rp\_PetID = rp\_Pet.rp\_PetID

JOIN rp\_MealPlanCall ON rp\_MealModelPartAmount.rp\_MealPlanCallID = rp\_MealPlanCall.rp\_MealPlanCallID

JOIN rp\_IngredientDetail ON rp\_MealPlanCall.rp\_IngredientDetailID = rp\_IngredientDetail.rp\_IngredientDetailID

JOIN rp\_IngredientType ON rp\_IngredientDetail.rp\_IngredientTypeID = rp\_IngredientType.rp\_IngredientTypeID

GO

SELECT \* FROM rp\_v\_CompletePlans

WHERE PetName = 'Kinako' AND SuggestedDate = '2021/05/01'

Create report from that shows complete meal plan by pet and date; also including sum of bill for meal plan for each day.

Graphical user interface, table

Description automatically generated

The relationship between daily meal cost and weight. The close appearance of the two relationships can be seen in a linear graph.

Chart, line chart

Description automatically generated

**Reflection**

When I first set this topic and even designed a conceptual and logical model, I did not know that it would be this complicated. My understanding, which was ambiguous at the planning stage, became more and more clear throughout physical database design phase. I was able to outline solid data models by continuously modifying relationships while inserting data. Thanks to this, a lot of practice has been given to understanding the logical model, i.e., how diagrams should be constructed on the premise of performing physical data design. However, on the other hand, too much time was spent designing physical databases to insert much sample data. If I had inserted more data, I think I would have had a better insight into the data questions, which is probably the most important part. But I am confident that I have mastered a solid underlying theory through this project. I have been able to handle a huge amount of data and become familiar with SQL queries. Exploring each feature that SSMS could not do by linking to R, Access, or Excel via ODBC was also extremely helpful.

**Summary**

For me, Rawsome Pawsome is not just a project. Every day to feed Kinako, Porsche and Latti, I calculate calories, weigh each ingredient, and check the freezer inventory. Because this is my daily routine, I naturally constantly think about how to improve this project. I will continue to modify and improve this database. I was able to learn the basics of data science, conceptual models, logic models, physical database design, and various tools, so that I would be able to analyze the data. I am more confident that I was able to create all these processes with my own hands. I think because of how much I cared about this particular project, I was able to learn the importance of the all the different concepts that go into the ability to design a functional database that I might create once I am employed. There are still many places that improve this project. I really enjoyed it and look forward to making it available for everyday use for at least myself if not others.