

## Database design

FoodOptions

{food\_name (primary key), food\_type}

FoodPreferences

{student\_name, dietary\_type, favorite\_food}

FoodWaste

{entry\_id, date\_served, food, meal, waste\_amount}

FoodOptions.food\_name is a foreign key for FoodPreferences.favorite\_food

FoodOptions.food\_name is a foreign key for FoodWaste.food

Database design in Django  
from django.db import models

```
class FoodOption(models.Model):  
    food_name = models.CharField(max_length = 200)  
    def __str__(self):  
        return self.food_name  
    veg = models.BooleanField()  
    vegan = models.BooleanField()  
    gluten_free = models.BooleanField()
```

```
class FoodPreference(models.Model):  
    student_name = models.CharField(max_length = 200)  
    def __str__(self):  
        return self.student_name  
    is_vegetarian = models.BooleanField()  
    is_vegan = models.BooleanField()  
    favorite_food = models.ForeignKey(FoodOption, on_delete=models.CASCADE)
```

```
class FoodWaste(models.Model):  
    date_served = models.DateTimeField("date")  
    def __str__(self):  
        x = str(self.date_served.date()) + " " + self.food.food_name + " " + self.meal  
        return x  
    food = models.ForeignKey(FoodOption, on_delete=models.CASCADE)  
    meal = models.CharField(max_length = 20)  
    waste_amount = models.IntegerField(default = 0)
```