

```

from flask_sqlalchemy import SQLAlchemy

from sqlalchemy import ForeignKeyConstraint, PrimaryKeyConstraint, CheckConstraint, Numeric

from sqlalchemy.dialects.postgresql import JSONB, NUMERIC

from sqlalchemy.ext.mutable import MutableList


db = SQLAlchemy()


class User(db.Model):

    __tablename__ = 'User'


    email = db.Column(db.String, primary_key=True, unique=True, nullable=False)
    name = db.Column(db.String, nullable=False)
    date_of_birth = db.Column(db.DateTime, nullable=True)
    street = db.Column(db.String, nullable=True)
    housenr = db.Column(db.Integer, nullable=True)
    postalcode = db.Column(db.String, nullable=True) # Veranderd naar String voor compatibiliteit met inter
    city = db.Column(db.String, nullable=True)
    country = db.Column(db.String, nullable=True)
    telephonenr = db.Column(db.String, nullable=True)
    is_chef = db.Column(db.Boolean, default=False, nullable=False) # Nodig om te onderscheiden tussen c
    preferences = db.Column(db.JSON, nullable=False, default=lambda: {
        "allergies": [],
        "favorite_origins": [],
        "favorite_ingredients": []
    })

    favorites = db.Column(MutableList.as_mutable(JSONB), default=[])

```

```
profile_picture = db.Column(db.Text(255), nullable=True)

chef_description = db.Column(db.String(2500), nullable=True)
```

```
# Relaties
```

```
recipes = db.relationship('Recipe', backref='chef', lazy=True)
```

```
consumer_transactions = db.relationship(
    'Transaction',
    backref='consumer',
    lazy=True,
    primaryjoin="User.email == Transaction.consumer_email"
)
```

```
chef_transactions = db.relationship(
    'Transaction',
    backref='chef_user',
    lazy=True,
    primaryjoin="User.email == Transaction.chef_email"
)
```

```
def set_preferences(self, favorite_ingredients=None, favorite_origins=None, allergies=None):
```

```
    """
```

```
    Update user preferences.
```

```
    """
```

```
    self.preferences = {
        "favorite_ingredients": favorite_ingredients or [],
        "favorite_origins": favorite_origins or [],
        "allergies": allergies or [],
```

```
}
```

```
def get_preferences(self):
```

```
    """
```

```
    Retrieve user preferences.
```

```
    """
```

```
    return self.preferences or {}
```

```
def __repr__(self):
```

```
    return f"<User(email={self.email}, name={self.name}, is_chef={self.is_chef})>"
```

```
def add_to_favorites(self, recipename, chef_email):
```

```
    if not self.favorites:
```

```
        self.favorites = []
```

```
    favorite_entry = {"recipename": recipename, "chef_email": chef_email}
```

```
    if favorite_entry not in self.favorites:
```

```
        self.favorites.append(favorite_entry)
```

```
def remove_from_favorites(self, recipename, chef_email):
```

```
    if not self.favorites:
```

```
        self.favorites = []
```

```
    favorite_entry = {"recipename": recipename, "chef_email": chef_email}
```

```
    self.favorites = [fav for fav in self.favorites if fav != favorite_entry]
```

```
def is_favorite(self, recipename, chef_email):
```

```
    # Ensure favorites is initialized as an empty list if None
```

```
if not self.favorites:
```

```
    self.favorites = []
```

```
    favorite_entry = {"recipe": recipe, "chef_email": chef_email}
```

```
    return favorite_entry in self.favorites
```

```
class Recipe(db.Model):
```

```
    __tablename__ = 'recipe'
```

```
    recipe = db.Column(db.String, nullable=False)
```

```
    chef_email = db.Column(db.String, db.ForeignKey('User.email', ondelete='CASCADE'), nullable=False)
```

```
    chef_name = db.Column(db.String, nullable=False) # Toegevoegd om overeen te komen met SQL-schema
```

```
    description = db.Column(db.String, nullable=True)
```

```
    duration = db.Column(db.Integer, nullable=True)
```

```
    price = db.Column(NUMERIC(10, 2), nullable=True) # Wijziging naar NUMERIC voor prijs met decimalen
```

```
    ingredients = db.Column(JSONB, nullable=True) # Blijft als JSONB zoals het oorspronkelijk was
```

```
    allergiesrec = db.Column(db.Text, nullable=True)
```

```
    image = db.Column(db.Text, nullable=True)
```

```
    origin = db.Column(db.String, nullable=True) # Toegevoegd voor herkomst
```

```
    category = db.Column(db.String, nullable=True) # Toegevoegd voor categorie
```

```
    preparation = db.Column(db.Text, nullable=True) # Toegevoegd voor bereidingswijze
```

```
    __table_args__ = (
```

```
        PrimaryKeyConstraint('recipe', 'chef_email'),
```

```
)
```

```
    def __repr__(self):
```

```
return f"<Recipe(recipe={self.recipe}, chef_email={self.chef_email})>"
```

```
class Transaction(db.Model):
```

```
    __tablename__ = 'transaction'
```

```
    transactionid = db.Column(db.BigInteger, primary_key=True)
```

```
    transactiondate = db.Column(db.DateTime, nullable=False)
```

```
    price = db.Column(db.Numeric(10, 2), nullable=False)
```

```
    consumer_email = db.Column(db.String, db.ForeignKey('User.email', ondelete='SET NULL'), nullable=True)
```

```
    chef_email = db.Column(db.String, db.ForeignKey('User.email', ondelete='SET NULL'), nullable=False)
```

```
    recipe = db.Column(db.String, nullable=False)
```

```
    __table_args__ = (
```

```
        db.ForeignKeyConstraint(
```

```
            ['recipe', 'chef_email'],
```

```
            ['recipe.recipe', 'recipe.chef_email'],
```

```
            ondelete='CASCADE'
```

```
        ),
```

```
    )
```

```
    def __repr__(self):
```

```
        return f"<Transaction(transactionid={self.transactionid}, recipe={self.recipe})>"
```

```
class Review(db.Model):
```

```
    __tablename__ = 'review'
```

```
    reviewid = db.Column(db.BigInteger, primary_key=True)
```

```
    comment = db.Column(db.Text, nullable=True)
```

```
    rating = db.Column(db.Integer, nullable=False)
```

```
    reviewdate = db.Column(db.DateTime, default=db.func.current_timestamp())
```

```
    consumer_email = db.Column(db.String, db.ForeignKey('User.email', ondelete='SET NULL'), nullable=False)
```

```
    recipename = db.Column(db.String, nullable=False)
```

```
    chef_email = db.Column(db.String, nullable=False)
```

```
    transactionid = db.Column(db.BigInteger, db.ForeignKey('transaction.transactionid', ondelete='CASCADE'))
```

```
    __table_args__ = (
```

```
        db.ForeignKeyConstraint(
```

```
            ['recipename', 'chef_email'],
```

```
            ['recipe.recipename', 'recipe.chef_email'],
```

```
            ondelete='CASCADE'
```

```
        ),
```

```
        db.CheckConstraint('rating BETWEEN 1 AND 5', name='check_rating_range'),
```

```
    )
```

```
    def __repr__(self):
```

```
        return f"<Review(reviewid={self.reviewid}, rating={self.rating})>"
```

```
class Feedback(db.Model):  
    __tablename__ = 'feedback'  
  
    id = db.Column(db.Integer, primary_key=True)  
    name = db.Column(db.String(50), nullable=False)  
    email = db.Column(db.String(100), nullable=False)  
    subject = db.Column(db.String(100), nullable=False)  
    message = db.Column(db.Text, nullable=False)  
    is_public = db.Column(db.Boolean, default=False) # Whether the comment is public  
    created_at = db.Column(db.DateTime, default=db.func.now())
```