```
email TEXT PRIMARY KEY NOT NULL,
       name TEXT NOT NULL,
       date_of_birth TIMESTAMP WITH TIME ZONE,
       housenr INTEGER,
       postalcode TEXT,
       city TEXT,
       telephonenr TEXT,
       is_chef BOOLEAN,
       favorites JSONB,
       preferences JSONB NOT NULL DEFAULT '{}'::jsonb,
       profile_picture TEXT,
       chef_description VARCHAR(2500),
       CONSTRAINT preferences_valid_json CHECK (jsonb_typeof(preferences) = 'object')
  CREATE TABLE IF NOT EXISTS Recipe (
       recipename TEXT NOT NULL,
       chef_email TEXT NOT NULL REFERENCES "User" (email) ON DELETE CASCADE,
       chef_name TEXT NOT NULL,
       description TEXT,
       duration INTEGER,
       price NUMERIC(10, 2),
       ingredients JSONB,
       allergiesrec TEXT,
       image TEXT,
       origin TEXT,
       category TEXT,
       preparation TEXT,
       PRIMARY KEY (recipename, chef_email)
   CREATE TABLE IF NOT EXISTS Transaction (
       transactionid BIGINT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,
       transactiondate TIMESTAMP WITH TIME ZONE NOT NULL,
       price NUMERIC(10, 2) NOT NULL,
       consumer_email TEXT REFERENCES "User" (email) ON DELETE SET NULL,
       recipename TEXT NOT NULL,
       chef_email TEXT NOT NULL,
       FOREIGN KEY (recipename, chef_email) REFERENCES Recipe (recipename, chef_email) ON DELETE CASCADE
51 CREATE TABLE IF NOT EXISTS Review (
       reviewid BIGINT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,
       comment TEXT.
       rating INTEGER CHECK (rating BETWEEN 1 AND 5),
       reviewdate TIMESTAMP WITH TIME ZONE DEFAULT CURRENT_TIMESTAMP,
       consumer_email TEXT NOT NULL REFERENCES "User" (email) ON DELETE SET NULL,
       recipename TEXT NOT NULL,
       chef_email TEXT NOT NULL,
       FOREIGN KEY (recipename, chef_email) REFERENCES Recipe (recipename, chef_email) ON DELETE CASCADE,
       FOREIGN KEY (transactionid) REFERENCES Transaction (transactionid) ON DELETE CASCADE
   CREATE TABLE IF NOT EXISTS feedback (
       id SERIAL PRIMARY KEY,
```

message TEXT NOT NULL,
is_public BOOLEAN DEFAULT FALSE,
created_at TIMESTAMP DEFAULT NOW()

```
--- Create indexes on the most queried columns to improve query performance

--- Add an index on the email column in the User table

CREATE INDEX IF NOT EXISTS idx_user_email ON "User" (email);

--- Add an index on the recipename column in the Recipe table

CREATE INDEX IF NOT EXISTS idx_recipe_recipename ON Recipe (recipename);

--- Add an index on the transactiondate column in the Transaction table

CREATE INDEX IF NOT EXISTS idx_transaction_date ON Transaction (transactiondate);

--- Add an index on the consumer_email column in the Transaction table

CREATE INDEX IF NOT EXISTS idx_transaction_consumer_email ON Transaction (consumer_email);

--- Add an index on the recipename column in the Review table

CREATE INDEX IF NOT EXISTS idx_review_recipename ON Review (recipename);
```