

SQL Schema

-- Users Table

```
CREATE TABLE Users (  
    _id INT PRIMARY KEY,  
    State VARCHAR(2),  
    createdDate DATE,  
    lastLogin DATE,  
    role VARCHAR(50),  
    Active BIT,  
    signUpSource VARCHAR(100)  
);
```

-- Categories Table

```
CREATE TABLE Categories (  
    _id INT PRIMARY KEY,  
    category VARCHAR(100),  
    categoryCode VARCHAR(50)  
);
```

-- Brands Table

```
CREATE TABLE Brands (  
    _id INT PRIMARY KEY,  
    Brand VARCHAR(100),  
    CodeCategory VARCHAR(50),  
    Cpghtop VARCHAR(100),  
    Brandname VARCHAR(100),  
    Barcode VARCHAR(50),  
    categoryCode INT,  
    FOREIGN KEY (categoryCode) REFERENCES Categories(_id)  
);
```

-- Items Table

```
CREATE TABLE Items (  
    Barcode VARCHAR(50) PRIMARY KEY,  
    Description VARCHAR(255),  
    itemPrice DECIMAL(10, 2),  
    finalPrice DECIMAL(10, 2),  
    quantityPurchased INT,  
    needsFetchReview BIT,  
    Partneritemid VARCHAR(50),  
    preventTargetGapPoints BIT,  
    userFlaggedNewItem BIT,  
    brand_id INT,  
    FOREIGN KEY (brand_id) REFERENCES Brands(_id)  
);
```

-- Receipts Table

```
CREATE TABLE Receipts (  
    _id INT PRIMARY KEY,  
    bonusPointsEarned INT,  
    bonusPointsEarnedReason VARCHAR(255),  
    createDate DATE,  
    dateScanned DATE,  
    finishedDate DATE,  
    pointsAwardedDate DATE,  
    pointsEarned INT,  
    purchaseDate DATE,  
    purchasedItemCount INT,
```

```

    rewardsReceiptItemList TEXT,
    rewardsReceiptStatus VARCHAR(50),
    totalSpent DECIMAL(10, 2),
    userId INT,
    FOREIGN KEY (userId) REFERENCES Users(_id)
);

-- Transaction Table
CREATE TABLE TransactionS (
    Receipt_id INT,
    User_id INT,
    Barcode VARCHAR(50),
    Brand_id INT,
    FOREIGN KEY (Receipt_id) REFERENCES Receipts(_id),
    FOREIGN KEY (User_id) REFERENCES Users(_id),
    FOREIGN KEY (Barcode) REFERENCES Items(Barcode),
    FOREIGN KEY (Brand_id) REFERENCES Brands(_id),
    PRIMARY KEY (Receipt_id, User_id, Barcode, Brand_id)
);

```