Broadband Service app:

These requirements form the foundation for a comprehensive Broadband Service app that allows users to manage their subscriptions, monitor usage, receive support, and stay informed about service-related updates and promotions.

1. User Registration and Authentication:

- Users should be able to create accounts to access the broadband services.

2. Service Plans and Packages:

- The app should provide information about available broadband service plans and packages.

- Users should be able to view details such as speed, data limits, pricing, and contract duration for each plan.

3. Subscription Management:

- Users should be able to subscribe to broadband service plans through the app.

- The app should support subscription upgrades, downgrades, and cancellations.

4. Billing and Payment:

- Users should be able to view their billing details, including billing cycle, usage charges, and payment history.

5. Account Management:

- Users should be able to update their account information, such as contact details, billing address, and preferred communication preferences.

6. Feedback and Ratings:

- Users should have the option to provide feedback and ratings for their broadband service experience.

- The app should collect user feedback to improve service quality and customer satisfaction.

Broadband App SQL Use Case

Use Case:

In a broadband service app database, users subscribe to different service plans, and the app needs to generate a report showing the total revenue generated from subscriptions in the last month.

Database Schema:

```
CREATE TABLE Users (
    user_id INT PRIMARY KEY,
    username VARCHAR(50) UNIQUE NOT NULL,
    email VARCHAR(100) UNIQUE NOT NULL,
    billing_address VARCHAR(255)
);
CREATE TABLE ServicePlans (
    plan_id INT PRIMARY KEY,
    plan_name VARCHAR(100) UNIQUE NOT NULL,
    speed_mbps INT,
    data_limit_gb INT,
    price DECIMAL(10, 2)
);
CREATE TABLE Subscriptions (
    subscription_id INT PRIMARY KEY,
    user_id INT,
    plan_id INT,
    subscription_date DATE,
    FOREIGN KEY (user_id) REFERENCES Users(user_id),
    FOREIGN KEY (plan_id) REFERENCES ServicePlans(plan_id)
);
```