**DatabaseHelper Usage Documentation**

**Introduction**

The **DatabaseHelper** class in the **com.example.app** package is a utility class designed to manage the database operations for a user-related Android application. It extends the **SQLiteOpenHelper** class, providing an interface to create, upgrade, delete, and manage the data stored in the SQLite database.

**Database Structure**

The database is structured to store user information with the following fields:

* **id**: An integer that uniquely identifies a user (auto-incremented).
* **name**: A text field to store the user's name.
* **age**: An integer field to store the user's age.
* **gender**: A text field to store the user's gender.
* **weight**: A double field to store the user's weight.
* **height**: A double field to store the user's height.

The table storing this information is named **User**.

**Creating the Database**

Upon instantiation of **DatabaseHelper**, the database and the **User** table will be created. This is managed by the **onCreate** method, which executes the SQL command stored in the **Create\_User** string.

**Using the DatabaseHelper Class**

**Adding a User**

To add a user to the database, instantiate the **DatabaseHelper** class and call the **addUser** method, passing the necessary user information as parameters:

1. DatabaseHelper dbHelper = **new** DatabaseHelper(context, "userDB", **null**, 1);
2. dbHelper.addUser("John Doe", 25, "Male", 70.5, 180.0);

### Deleting a User

To delete a user from the database, call the **deleteUser** method with the user's ID as the parameter:

1. dbHelper.deleteUser(1);  // Deletes the user with ID 1

### Retrieving User Information

To retrieve a user's information from the database, call the **getUser** method with the user's ID as the parameter. This method returns a **Cursor** object:

1. Cursor user = dbHelper.getUser(1);
2. **if** (user != **null**) {
3. String name = user.getString(user.getColumnIndex("name"));
4. // Get other user information similarly
5. }

### Updating User Information

To update a user's information in the database, call the **updateUser** method with the user's ID and the new information as parameters:

1. dbHelper.updateUser(1, "Jane Doe", 26, "Female", 65.0, 170.0);

### Database Upgrades

If you need to upgrade the database (e.g., changing the schema), modify the **onUpgrade** method. Note that in the current implementation, the **onUpgrade** method drops the existing table and creates a new one.