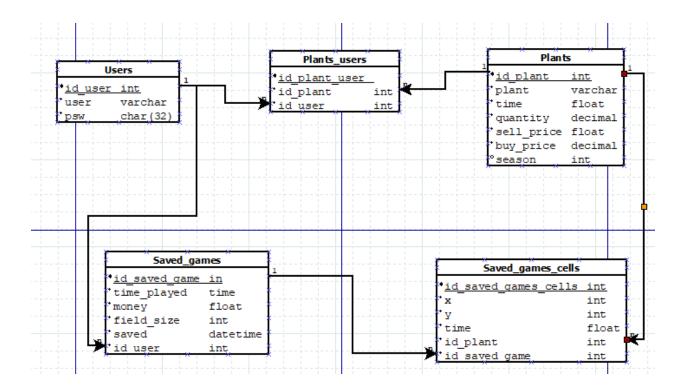
Esquema de la base de datos:



Aquí tenemos las tablas principales plants y users, de las cuales dependen el resto. En plants_users se gestiona el inventario haciendo referencia al id del usuario y el id de la planta. En saved_games se guardan los datos de tu partida (tiempo jugado, dinero...), de la cual depende saved_games_cells, que guarda la posición x y de las plantas en el campo

He dividido el código de acceso a la base de datos en varios métodos, que se usarán dependiendo de si se quiere insertar o consultar datos (y cuales).

Este es el código que usa la base de datos. En el void start se establece la conexión y en el resto se hacen las inserciones de datos o sus consultas:

```
using System.Collections;
using System.Collections.Generic;
using UnityEngine;
using System.Data;
using Mono.Data.Sqlite;
using System;
using System;
```

```
using System.Text;
   void Awake()
       conn = new SqliteConnection(string.Format("URI=file:{0}",
db_name));
        conn.Open();
   public static List<ArrayList> SendQuery(string query)
            cmd.CommandText = query;
                while (reader.Read())
                    res.Add(new ArrayList());
                    res[aux] = new ArrayList();
                        res[aux].Add(reader[i].ToString());
                        Debug.Log(reader[i].ToString());
                    aux++;
```

```
return res;
public static void InsertOnInventory(int plant id, int id user)
    using (IDbCommand cmd = conn.CreateCommand())
       string comm txt = string.Format(
            VALUES ({0}, {1});", plant id, id user);
        cmd.CommandText = comm txt;
       cmd.ExecuteNonQuery();
public static void RemoveFromInventory(int plant id, int id user)
            plant id, id user); // cambiar id user al adecuado al
       cmd.ExecuteNonQuery();
public static List<ArrayList> GetInventory(int id user)
```

```
while (reader.Read())
                res[aux].Add(reader[i].ToString());
            aux++;
return res;
string query = "SELECT * FROM plants";
    comm.CommandText = query;
```

```
while (reader.Read())
                res.Add(new ArrayList());
                res[aux] = new ArrayList();
                for (int i = 0; i < reader.FieldCount; i++)</pre>
                    res[aux].Add(reader[i].ToString());
                    Debug.Log(reader[i].ToString());
        return res;
public static List<ArrayList> CreateUser(string name, string psw)
        psw = GameManager.gm.GetMD5Hash(psw);
        VALUES (""{0}"", ""{1}"")", name, psw);
        cmd.CommandText = query;
        Debug.Log(query);
```

```
cmd.ExecuteNonQuery();
           query = string.Format(@"SELECT * FROM users WHERE user=""{0}""
AND psw=""{1}""", name, psw);
           cmd.CommandText = query;
           using (IDataReader reader = cmd.ExecuteReader())
                while (reader.Read())
                    res.Add(new ArrayList());
                    res[aux] = new ArrayList();
                    for (int i = 0; i < reader.FieldCount; i++)</pre>
                        res[aux].Add(reader[i].ToString());
                        Debug.Log(reader[i].ToString());
   public static List<ArrayList> GetUser(string user, string psw)
            psw = GameManager.gm.GetMD5Hash(psw);
```

```
cmd.CommandText = query;
                while (reader.Read())
                    res.Add(new ArrayList());
                    res[aux] = new ArrayList();
                    for (int i = 0; i < reader.FieldCount; i++)</pre>
                        res[aux].Add(reader[i].ToString());
                        Debug.Log(reader[i].ToString());
       return res;
   public static void SaveGame (int time played, float coins, int
field size, int id user)
       using (IDbCommand cmd = conn.CreateCommand())
            string query = string.Format(@"
field size, id user)
            ", time played, coins, field size, id user);
            cmd.CommandText = query;
            cmd.ExecuteNonQuery();
```

```
using (IDbCommand cmd = conn.CreateCommand())
    string query = string.Format(@"
    cmd.CommandText = query;
    using (IDataReader reader = cmd.ExecuteReader())
        while (reader.Read())
            res[aux] = new ArrayList();
                res[aux].Add(reader[i].ToString());
                Debug.Log(reader[i].ToString());
```