**Unity使用JavaScript访问SQLite本地数据库**

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[**Unity**](http://www.unitymanual.com)使用JavaScript访问SQLite本地数据库

**类文件:**

import System.Data; // we import our data class  
import Mono.Data.SqliteClient; // we import our sqlite client

class dbAccess {  
// variables for basic query access  
private var connection : String;  
private var dbcon : IDbConnection;  
private var dbcmd : IDbCommand;  
private var reader : IDataReader;

function OpenDB(p : String){  
connection = "URI=file:" + p; // we set the connection to our database  
dbcon = new SqliteConnection(connection);  
dbcon.Open();  
}

function BasicQuery(q : String, r : boolean){ // run a baic Sqlite query  
dbcmd = dbcon.CreateCommand(); // create empty command  
dbcmd.CommandText = q; // fill the command  
reader = dbcmd.ExecuteReader(); // execute command which returns a reader  
if(r){ // if we want to return the reader  
return reader; // return the reader  
}  
}

function CreateTable(name : String, col : Array, colType : Array){ // Create a table, name, column array, column type array  
var query : String;  
query = "CREATE TABLE " + name + "(" + col[0] + " " + colType[0];  
for(var i=1; i<col.length; i++){  
query += ", " + col[i] + " " + colType[i];  
}  
query += ")";  
dbcmd = dbcon.CreateCommand(); // create empty command  
dbcmd.CommandText = query; // fill the command  
reader = dbcmd.ExecuteReader(); // execute command which returns a reader

}

function InsertIntoSingle(tableName : String, colName : String, value : String){ // single insert  
var query : String;  
query = "INSERT INTO " + tableName + "(" + colName + ") " + "VALUES (" + value + ")";  
dbcmd = dbcon.CreateCommand(); // create empty command  
dbcmd.CommandText = query; // fill the command  
reader = dbcmd.ExecuteReader(); // execute command which returns a reader  
}

function InsertIntoSpecific(tableName : String, col : Array, values : Array){ // Specific insert with col and values  
var query : String;  
query = "INSERT INTO " + tableName + "(" + col[0];  
for(var i=1; i<col.length; i++){  
query += ", " + col[i];  
}  
query += ") VALUES (" + values[0];  
for(i=1; i<values.length; i++){  
query += ", " + values[i];  
}  
query += ")";  
dbcmd = dbcon.CreateCommand();  
dbcmd.CommandText = query;  
reader = dbcmd.ExecuteReader();  
}

function InsertInto(tableName : String, values : Array){ // basic Insert with just values  
var query : String;  
query = "INSERT INTO " + tableName + " VALUES (" + values[0];  
for(var i=1; i<values.length; i++){  
query += ", " + values[i];  
}  
query += ")";  
dbcmd = dbcon.CreateCommand();  
dbcmd.CommandText = query;  
reader = dbcmd.ExecuteReader();  
}

function SingleSelectWhere(tableName : String, itemToSelect : String, wCol : String, wPar : String, wValue : String){ // Selects a single Item  
var query : String;  
query = "SELECT " + itemToSelect + " FROM " + tableName + " WHERE " + wCol + wPar + wValue;  
dbcmd = dbcon.CreateCommand();  
dbcmd.CommandText = query;  
reader = dbcmd.ExecuteReader();  
var readArray = new Array();  
while(reader.Read()){  
readArray.Push(reader.GetString(0)); // Fill array with all matches  
}  
return readArray; // return matches  
}

function CloseDB(){  
reader.Close(); // clean everything up  
reader = null;  
dbcmd.Dispose();  
dbcmd = null;  
dbcon.Close();  
dbcon = null;  
}

}

**使用方法：**

**1. 创建本地数据库**

var db : dbAccess;  
function Start(){  
db = new dbAccess();  
db.OpenDB("myDB.sqdb");  
var tableName = "myTable";  
var columnNames = new Array("firstName","lastName");  
var columnValues = new Array("text","text");  
db.CreateTable(tableName,columnNames,columnValues);  
db.CloseDB();  
}

**2.插入数据**

var db : dbAccess;  
function Start(){  
db = new dbAccess();  
db.OpenDB("myDB.sqdb");  
var tableName = "myTable";  
// IMPORTANT remember to add single ' to any strings, do not add them to numbers!  
var values = new Array("'Bob'","'Sagat'");  
db.InsertInto(tableName, values);  
db.CloseDB();  
}

**3.使用WHERE select**

var db : dbAccess;  
function Start(){  
db = new dbAccess();  
db.OpenDB("myDB.sqdb");  
var tableName = "myTable";  
// table name, I want to return everyone whose first name is Bob when their last name is = to Sagat, this returs an array  
var resultArray = db.SingleSelectWhere(tableName, "firstName", "lastName","=","'Sagat'"); // Remember the '' on String values  
print(resultArray[0]);  
// of course you can loop through them all if you wish  
db.CloseDB();

}