HatPluginMySql

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English version

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Description

HatPluginMySql

HatPluginMySql - a plugin for the Hat browser that allows you to perform automated testing of data in a MySQL database.

System requirements:
the plugin is compatible with the Hat browser starting from version 1.4

The official page: https://somovstudio.github.io/

Download the app from GitHub: https://github.com/SomovStudio/Hat

The version of this documentation corresponds to the browser version 1.5.0.3 (update 03/27/2026)

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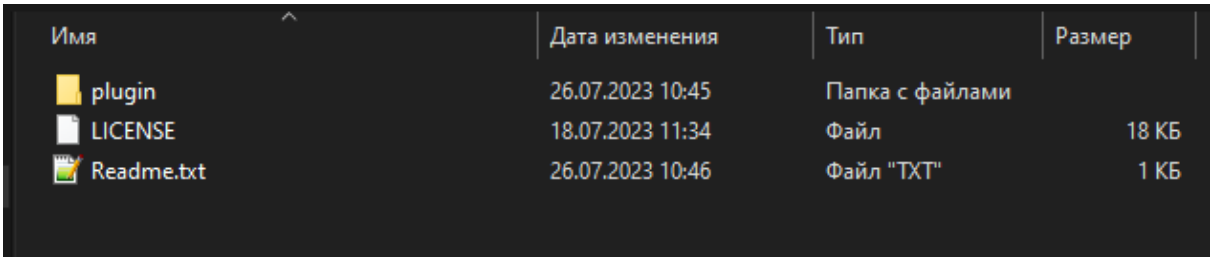
Installing the plugin

Installing the plugin HatPluginMySql

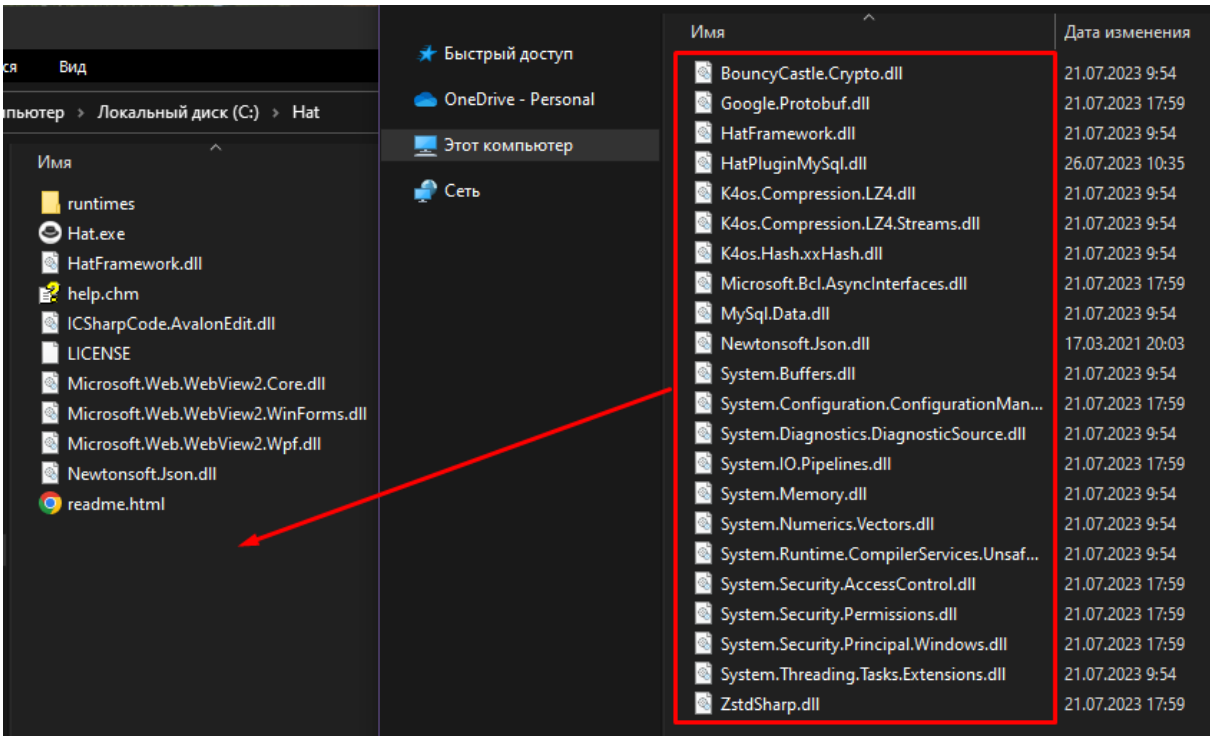
1. Download and install the browser **Hat**
link: https://github.com/SomovStudio/Hat/releases

2. Download the plugin **HatPluginMySql**
link: https://github.com/SomovStudio/HatPluginMySql/releases

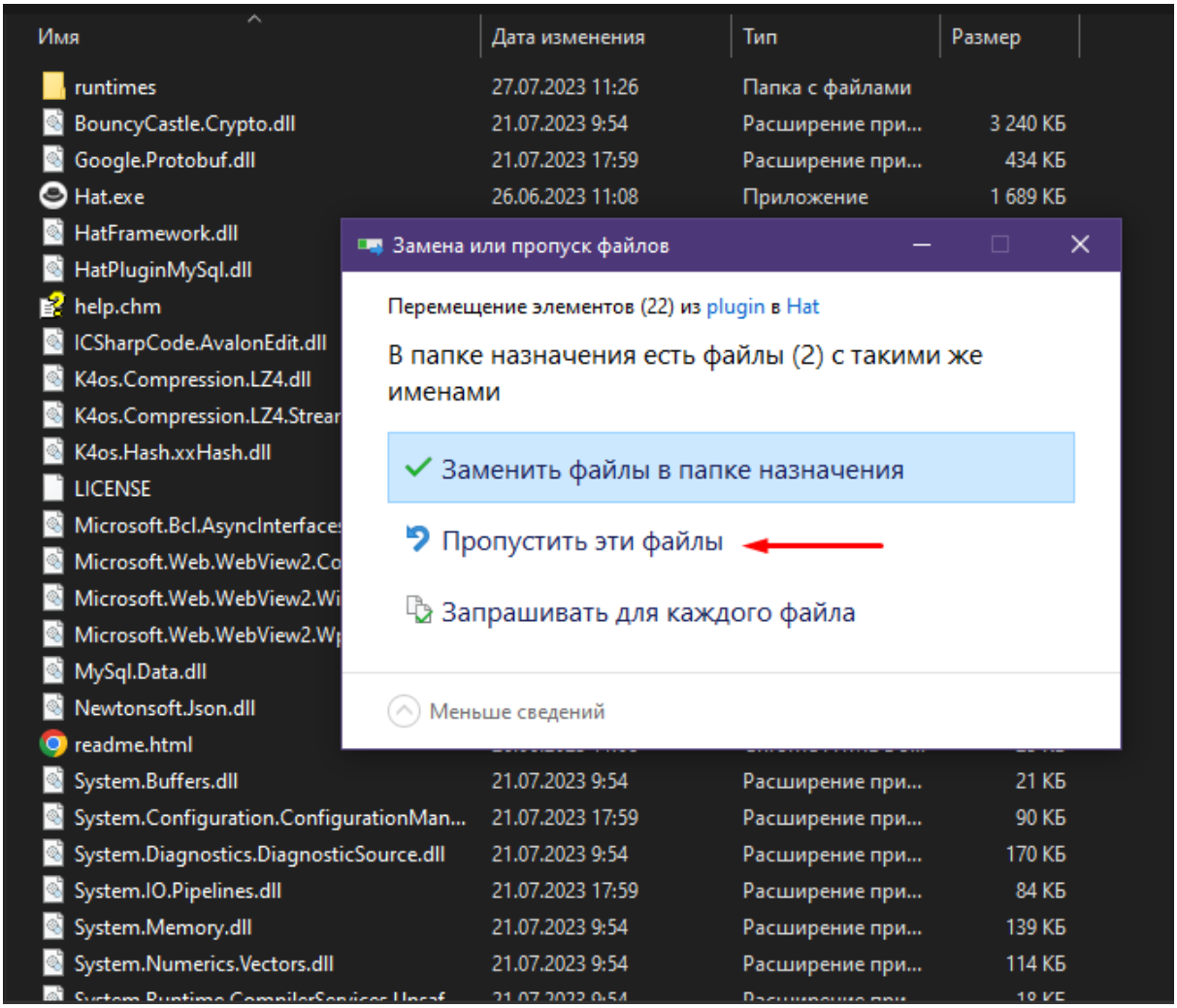
3. Unpack the archive **HatPluginMySql-1.0.0.zip**



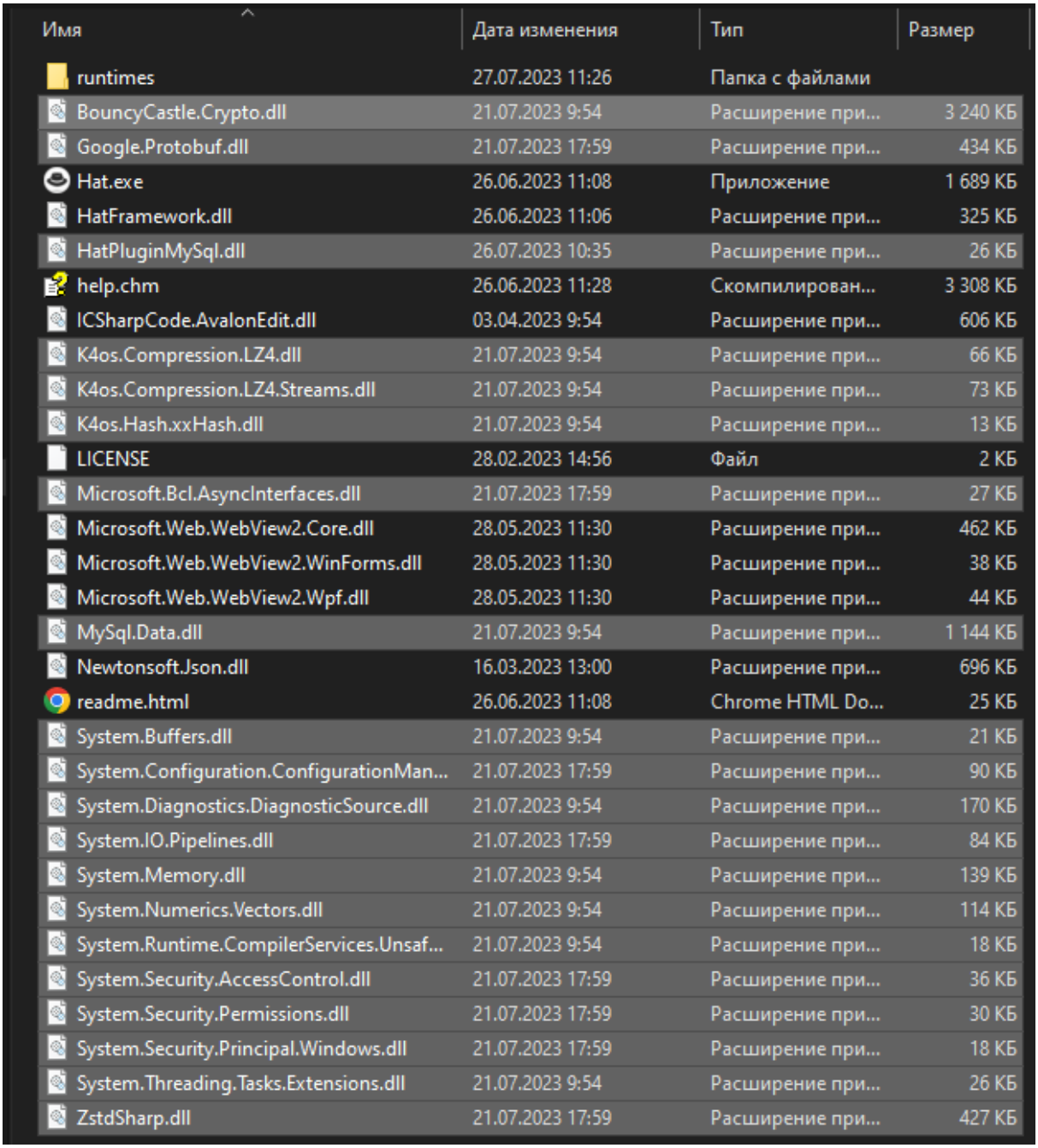
4. Copy the contents of the **plugin** folder to the root of the **Hat** browser folder



When copying, you may be asked about replacing existing files.
In this case, it is recommended to select "Skip these files".



As a result, the following files should be in the root of the folder



Имя	Дата изменения	Тип	Размер
runtimes	27.07.2023 11:26	Папка с файлами	
BouncyCastle.Crypto.dll	21.07.2023 9:54	Расширение при...	3 240 КБ
Google.Protobuf.dll	21.07.2023 17:59	Расширение при...	434 КБ
Hat.exe	26.06.2023 11:08	Приложение	1 689 КБ
HatFramework.dll	26.06.2023 11:06	Расширение при...	325 КБ
HatPluginMySql.dll	26.07.2023 10:35	Расширение при...	26 КБ
help.chm	26.06.2023 11:28	Скомпилирован...	3 308 КБ
ICSharpCode.AvalonEdit.dll	03.04.2023 9:54	Расширение при...	606 КБ
K4os.Compression.LZ4.dll	21.07.2023 9:54	Расширение при...	66 КБ
K4os.Compression.LZ4.Streams.dll	21.07.2023 9:54	Расширение при...	73 КБ
K4os.Hash.xxHash.dll	21.07.2023 9:54	Расширение при...	13 КБ
LICENSE	28.02.2023 14:56	Файл	2 КБ
Microsoft.Bcl.AsyncInterfaces.dll	21.07.2023 17:59	Расширение при...	27 КБ
Microsoft.Web.WebView2.Core.dll	28.05.2023 11:30	Расширение при...	462 КБ
Microsoft.Web.WebView2.WinForms.dll	28.05.2023 11:30	Расширение при...	38 КБ
Microsoft.Web.WebView2.Wpf.dll	28.05.2023 11:30	Расширение при...	44 КБ
MySql.Data.dll	21.07.2023 9:54	Расширение при...	1 144 КБ
Newtonsoft.Json.dll	16.03.2023 13:00	Расширение при...	696 КБ
readme.html	26.06.2023 11:08	Chrome HTML Do...	25 КБ
System.Buffers.dll	21.07.2023 9:54	Расширение при...	21 КБ
System.Configuration.ConfigurationMan...	21.07.2023 17:59	Расширение при...	90 КБ
System.Diagnostics.DiagnosticSource.dll	21.07.2023 9:54	Расширение при...	170 КБ
System.IO.Pipelines.dll	21.07.2023 17:59	Расширение при...	84 КБ
System.Memory.dll	21.07.2023 9:54	Расширение при...	139 КБ
System.Numerics.Vectors.dll	21.07.2023 9:54	Расширение при...	114 КБ
System.Runtime.CompilerServices.Unsaf...	21.07.2023 9:54	Расширение при...	18 КБ
System.Security.AccessControl.dll	21.07.2023 17:59	Расширение при...	36 КБ
System.Security.Permissions.dll	21.07.2023 17:59	Расширение при...	30 КБ
System.Security.Principal.Windows.dll	21.07.2023 17:59	Расширение при...	18 КБ
System.Threading.Tasks.Extensions.dll	21.07.2023 9:54	Расширение при...	26 КБ
ZstdSharp.dll	21.07.2023 17:59	Расширение при...	427 КБ

This completes the installation of the plugin!

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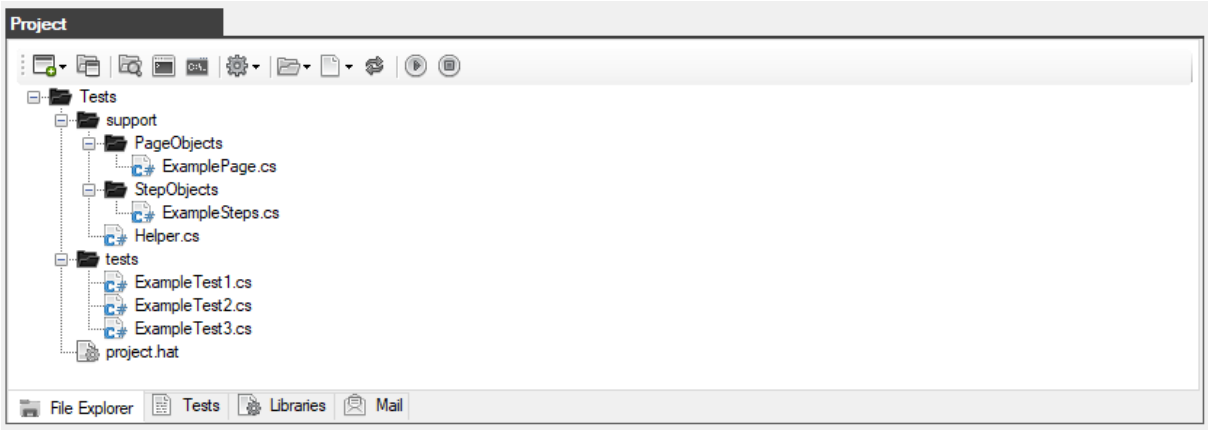
Connecting the plugin to the project

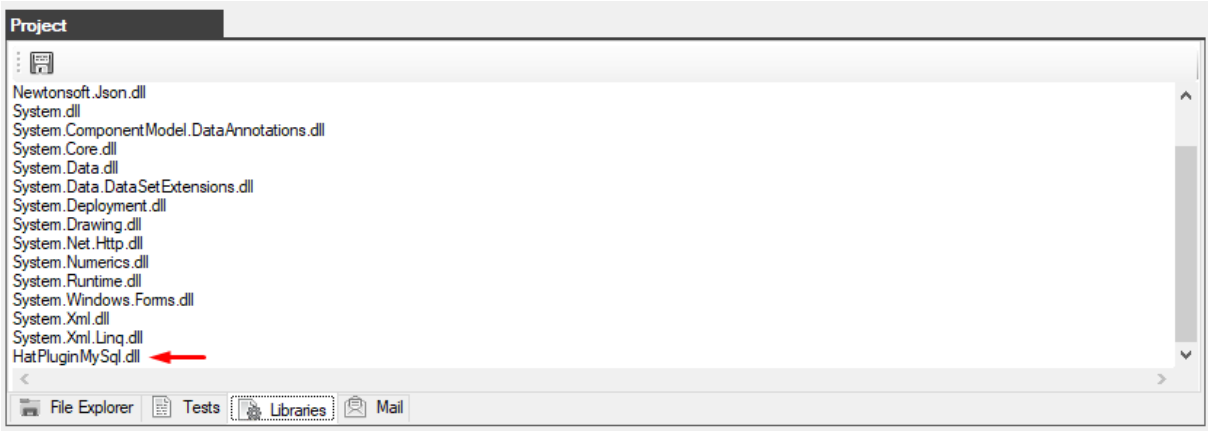
Connecting the HatPluginMySql plugin to the autotest project

1. Launch the browser **Hat**

2. Create a new project or open an existing project



3. Go to the Libraries tab and enter the name of one file at the end of the list **HatPluginMySql.dll**



4. Click the "Save" button.

This completes the plug-in connection to the project

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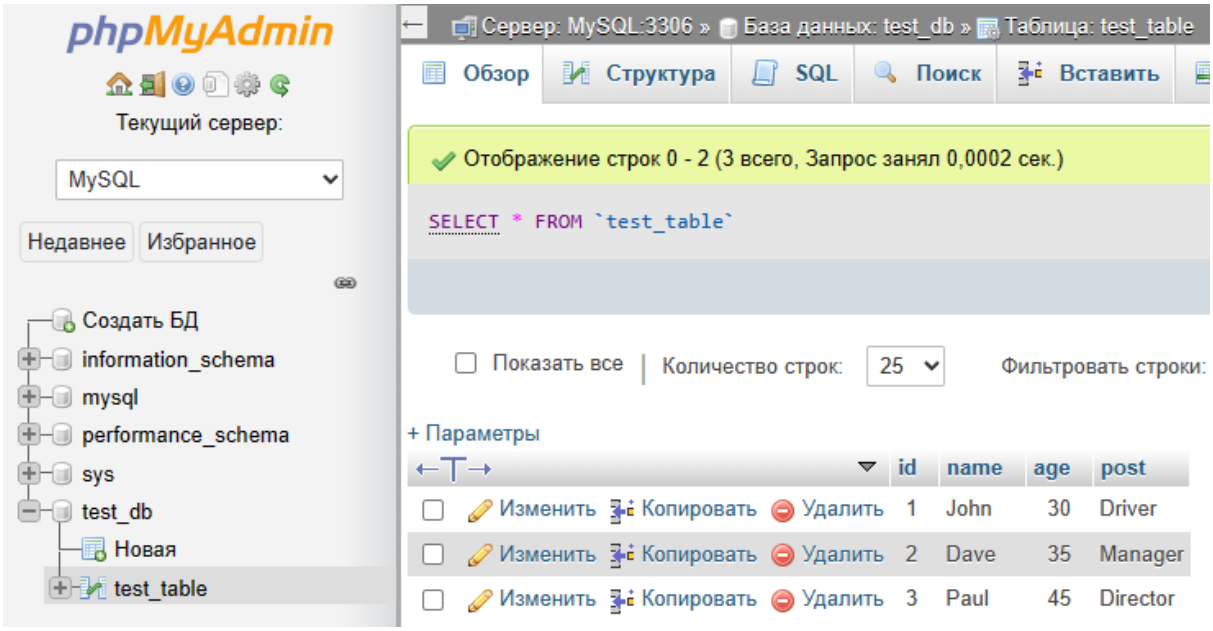
An example of an autotest

An example of an autotest

After the plugin has been installed and connected to the project, let's consider a simple autotest.

We have created a simple database in MySQL named test_db
There is one test_table table in this database with the fields: id, name, age, post



Now let's describe a simple autotest that will add, modify and delete data in the database while checking the correctness of the results.

Файл: ExampleTest3.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Windows.Forms;
using System.Threading;
using System.Threading.Tasks;
using System.IO;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Text.RegularExpressions;
using System.Net;
using System.Net.Http;
using System.Net.Http.Headers;
using System.Reflection;
using Newtonsoft.Json;
using HatFramework;
using HatPluginMySql;

namespace Hat
{
    public class ExampleTest3
    {
            Tester tester;

        public async void Main(Form browserWindow)
        {
            tester = new Tester(browserWindow);
```

```
            await setUp();
            await test();
            await tearDown();
        }

        public async Task setUp()
        {
            tester.Description("Test #3 checking the
database");
            await tester.BrowserFullScreenAsync();
        }

        public async Task test()
        {
                DataTable dataTable = null;
            List<List<string>> entries = new
List<List<string>>();
                TesterMySql testerMySql = new
TesterMySql(tester);

            await tester.TestBeginAsync();

            await
testerMySql.ConnectionOpenAsync
("server=127.0.0.1;uid=root;pwd=;database=test_db");

            int count = await
testerMySql.GetCountEntriesAsync("SELECT * FROM test_table");
            if (count > 0)
            {
                    entries =
testerMySql.GetEntriesAsync("SELECT * FROM test_table");
                    dataTable =
testerMySql.GetDataTableAsync("SELECT * FROM test_table");
                foreach (DataRow row in dataTable.Rows)
                    foreach (DataColumn col in
dataTable.Columns)
                        tester.ConsoleMsg(row[col].ToString()
);
            }

            await testerMySql.SetEntryAsync("INSERT INTO
test_table VALUES(NULL, 'I am Tester', 100, 'My post QA')");
            bool result = await
testerMySql.FindEntryAsync("test_table", "name", "'I am
Tester'");
            await
testerMySql.AssertHaveInTableAsync("test_table", "name", "'I
am Tester'");
```

```
                entries = await
testerMySql.GetEntriesFromTableAsync("test_table");
            if (entries != null){
                foreach(List<string> entry in entries)
                    foreach(string value in entry)
                        tester.ConsoleMsg(value);
            }

            await testerMySql.EditEntryAsync("UPDATE
test_table SET age = 111 WHERE name = 'I am Tester'");
                result = await
testerMySql.FindEntryAsync("test_table", "age", "111");
            await
testerMySql.AssertHaveInTableAsync("test_table", "age",
"111");

            await testerMySql.RemoveEntryAsync("DELETE FROM
test_table WHERE name = 'I am Tester'");
                result = await
testerMySql.FindEntryAsync("test_table", "name", "'I am
Tester'");
            await
testerMySql.AssertDontHaveInTableAsync("test_table", "name",
"'I am Tester'");

            await testerMySql.ConnectionCloseAsync();

            await tester.TestEndAsync();
        }

        public async Task tearDown()
        {
            //  await  tester.BrowserCloseAsync();
        }
    }
}
```

Please note that for the autotests to work correctly, you need to connect the library

```
using HatPluginMySql;
```

First, there is a connection to the database

```
TesterMySql testerMySql = new TesterMySql(tester);
await
testerMySql.ConnectionOpenAsync
("server=127.0.0.1;uid=root;pwd=;database=test_db");
```

Data manipulation is performed using different methods

```
await testerMySql.GetCountEntriesAsync("SELECT * FROM
```

```
test_table");
await testerMySql.GetEntriesAsync("SELECT * FROM
test_table");
await testerMySql.GetEntriesFromTableAsync("test_table");
await testerMySql.GetDataTableAsync("SELECT * FROM
test_table");
await testerMySql.SetEntryAsync("INSERT INTO test_table
VALUES(NULL, 'I am Tester', 100, 'My post QA')");
await testerMySql.FindEntryAsync("test_table", "name", "'I
am Tester'");
await testerMySql.EditEntryAsync("UPDATE test_table SET age
= 111 WHERE name = 'I am Tester'");
await testerMySql.RemoveEntryAsync("DELETE FROM test_table
WHERE name = 'I am Tester'");
```

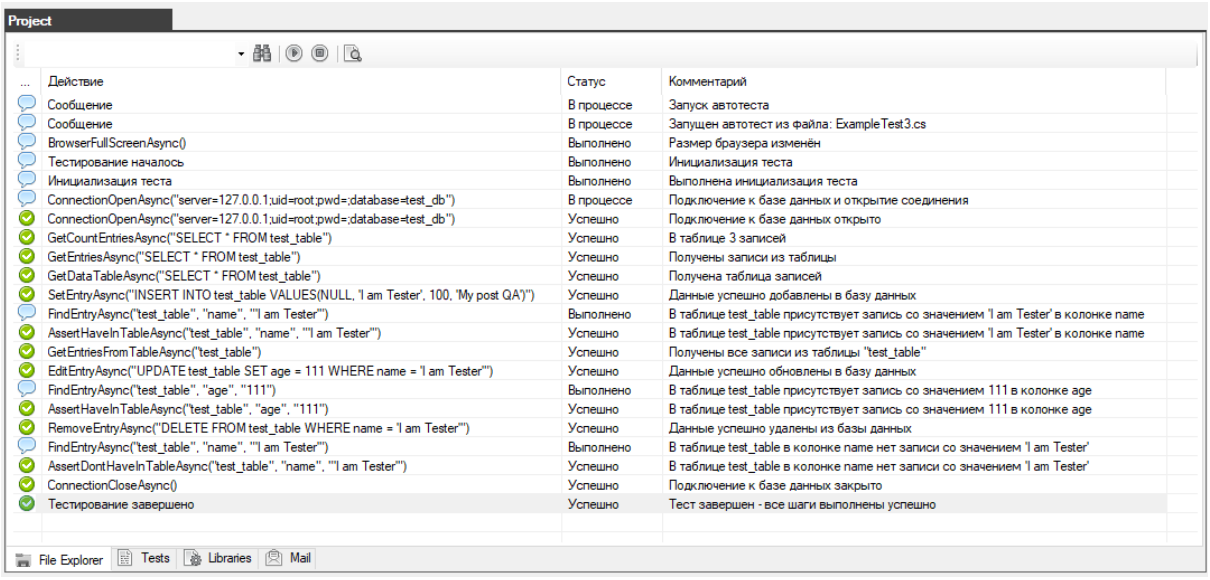
Special methods for checking the presence or absence of data in the database

```
await testerMySql.AssertHaveInTableAsync("test_table",
"name", "'I am Tester'");
await testerMySql.AssertDontHaveInTableAsync("test_table",
"name", "'I am Tester'")
```

At the end, the work with the database is completed by closing the connection to it

```
await testerMySql.ConnectionCloseAsync();
```

Let's run the autotest and look at the progress of the check and the result



All actions were completed, all checks were successful.

The test was completed successfully.

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Class: TesterMySql

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Constructor

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TesterMySql

TesterMySql
Description: the main class of working with a MySQL database
Syntax: TesterMySql(Tester tester)

Example:
Tester tester = new Tester(browserWindow);
TesterMySql testerMySql = new TesterMySql(tester);

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Methods

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ConnectionOpenAsync

ConnectionOpenAsync
Description: the method opens a connection to the MySQL database
Syntax: ConnectionOpenAsync(string connectionString)
Return value: no return value

Example:
```
await testerMySql.ConnectionOpenAsync("server=127.0.0.1;uid=root;pwd=;database=test_db");
```

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ConnectionCloseAsync

ConnectionCloseAsync
Description: the method closes the connection to the MySQL database
Syntax: ConnectionCloseAsync()
Return value: no return value

Example:
await testerMySql.ConnectionCloseAsync();

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GetCountEntriesAsync

GetCountEntriesAsync
Description: the method returns the number of records in the table after executing the query
Syntax: GetCountEntriesAsync(string sqlQuertSelect)
Return value: int

Example:
int count = await testerMySql.GetCountEntriesAsync("SELECT * FROM test_table");

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GetEntriesAsync

GetEntriesAsync

Description: the method returns a list of records from the table after executing the query
Syntax: GetEntriesAsync(string sqlQuertSelect)
Return value: List

Example:

```
List<List<string>> entries = new List<List<string>>();
entries = await testerMySql.GetEntriesAsync("SELECT * FROM test_table");

foreach(List<string> entry in entries)
        foreach(string value in entry)
                tester.ConsoleMsg(value);
```

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GetEntriesFromTableAsync

GetEntriesFromTableAsync
Description: the method returns a list of records from the specified database table
Syntax: GetEntriesFromTableAsync(string tableName)
Return value: List

Example:

```
List<List<string>> entries = new List<List<string>>();
entries = await testerMySql.GetEntriesFromTableAsync("test_table");

foreach(List<string> entry in entries)
        foreach(string value in entry)
                tester.ConsoleMsg(value);
```

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GetDataTableAsync

GetDataTableAsync

Description: the method returns a table of records from the database table after executing the query
Syntax: GetDataTableAsync(string sqlQuertSelect)
Return value: DataTable

Example:

```
DataTable dataTable = null;
dataTable = await testerMySql.GetDataTableAsync("SELECT * FROM test_table");

foreach (DataRow row in dataTable.Rows)
                foreach (DataColumn col in dataTable.Columns)
                        tester.ConsoleMsg(row[col].ToString());
```

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SetEntryAsync

SetEntryAsync
Description: the method executes a query that adds data to the database table and returns the record number
Syntax: SetEntryAsync(string sqlQuertInsert)
Return value: int

Example:
int result = await testerMySql.SetEntryAsync("INSERT INTO test_table VALUES(NULL, 'I am Tester', 100, 'My post QA')");

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EditEntryAsync

EditEntryAsync
Description: the method executes a query that modifies the data in the database table and returns the record number
Syntax: EditEntryAsync(string sqlQuertUpdate)
Return value: int

Example:
int result = await testerMySql.EditEntryAsync("UPDATE test_table SET age = 111 WHERE name = 'I am Tester'");

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RemoveEntryAsync

RemoveEntryAsync
Description: the method executes a query that deletes the data in the database table and returns the record number
Syntax: RemoveEntryAsync(string sqlQuertDelete)
Return value: int

Example:
int result = await testerMySql.RemoveEntryAsync("DELETE FROM test_table WHERE name = 'I am Tester'");

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FindEntryAsync

FindEntryAsync

Description: the method searches for data in the specified database table and returns the boolean value of the search result
Syntax: FindEntryAsync(string tableName, string columnName, string value)
Return value: bool (true or false)

Example:

```
bool result = await testerMySql.FindEntryAsync("test_table", "name", "'I am Tester'");
```

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AssertHaveInTableAsync

AssertHaveInTableAsync

Description: the method checks the data in the specified database table and returns the boolean value of the search result, in case of a negative result, the check will be considered a failure

Syntax: AssertHaveInTableAsync(string tableName, string columnName, string value)

Return value: bool (true or false)

Example:

```
bool result = await testerMySql.AssertHaveInTableAsync("test_table", "name", "'I am Tester'");
```

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AssertDontHaveInTableAsync

AssertDontHaveInTableAsync

Description: the method checks the data in the specified database table and returns the boolean value of the search result, in case of a positive result, the check will be considered a failure

Syntax: AssertDontHaveInTableAsync(string tableName, string columnName, string value)

Return value: bool (true or false)

Example:

```
bool result = await testerMySql.AssertDontHaveInTableAsync("test_table", "name", "'I am Tester'");
```

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