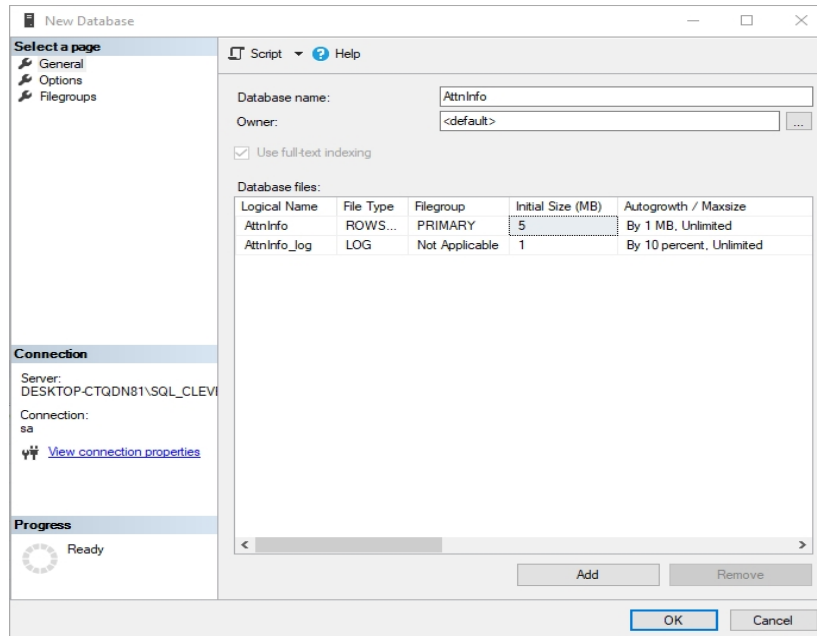


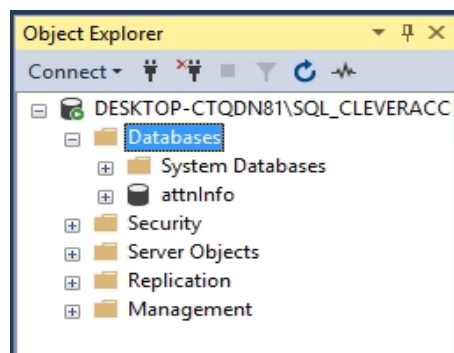
Configuration to link Clever Access 2.0 with SQL Server

A: Create SQL Database and table in SQL Server

1. Open Microsoft SQL Server Management Studio.
2. Create a new database.
In "Microsoft SQL Server Management Studio" go to "Databases".
On the "Databases" folder, press the right mouse button and select "New Database".
In the "Database name" field enter the name "AttnInfo" and press "OK".



A new database with the assigned name will be created.



3. Create the Table

Locate yourself on the "AttnInfo" Database.

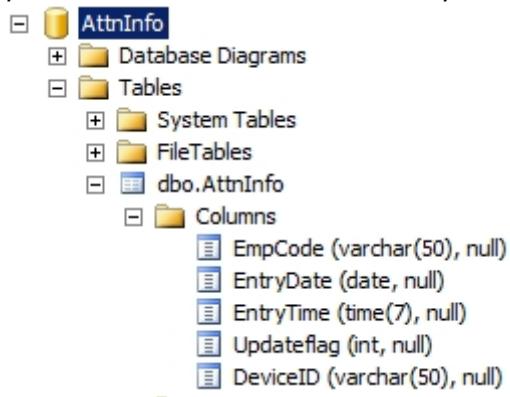
Press right button and select "New Query" ("New Query" in Spanish), in the blank window enter the following sentence:

```
CREATE TABLE [dbo].[AttnInfo](  
    [EmpCode][varchar](50) NULL,  
    [EntryDate][date] NULL,  
    [EntryTime][time](7) NULL,  
    [Updateflag][int] NULL,  
    [DeviceID][varchar](50) NULL  
    ) ON [PRIMARY]  
  
GO
```

Then press the "Execute" button.

Verify that the result of the command is "Command completed succesfully"

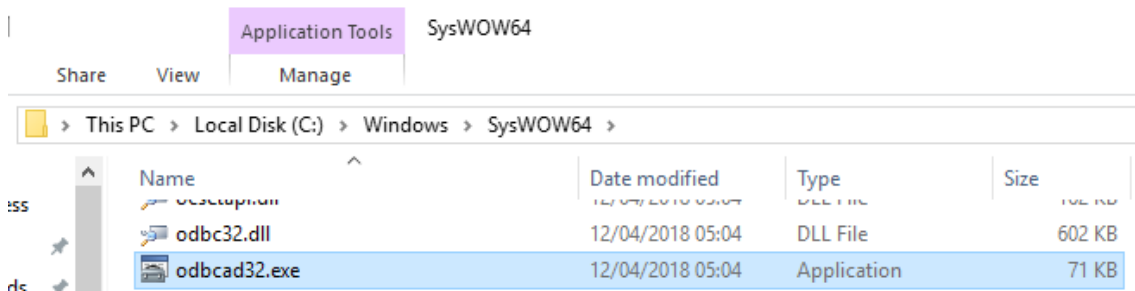
Verify that the Table was created correctly in the "AttnInfo" database, by expanding "Tables".



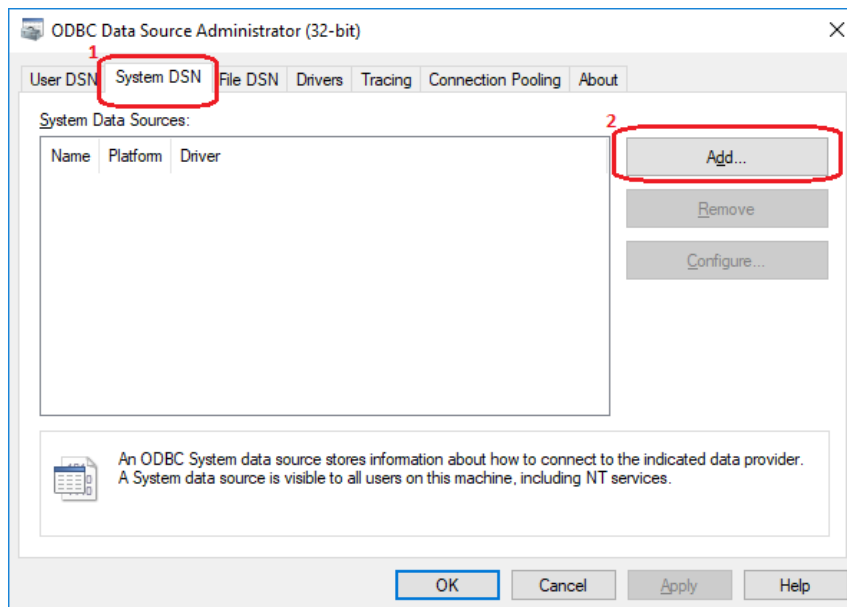
Verify that the "dbo.AttnInfo" table is created, otherwise press "refresh" button. It should appear. If not, means the table is not created. So Please, follow the steps once again.

B: Create ODBC DSN

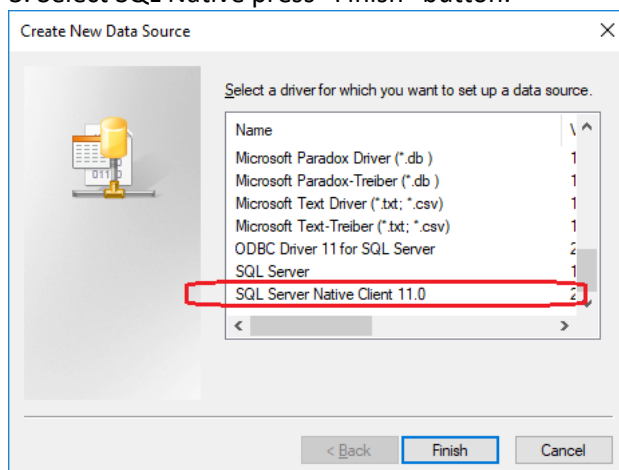
1. In 64-bit OS please go to path "C:\Windows\SysWOW64" and open "odbcad32.exe".
In 32-bit OS please go to path "C:\Windows\System32" and open "odbcad32.exe".



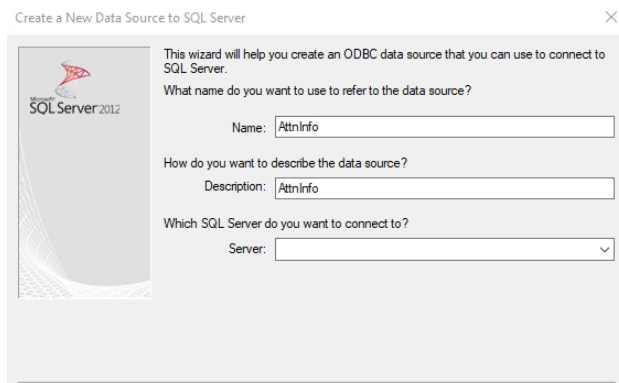
2. Go to "System DSN" and press "Add" button.



3. Select SQL Native press "Finish" button.



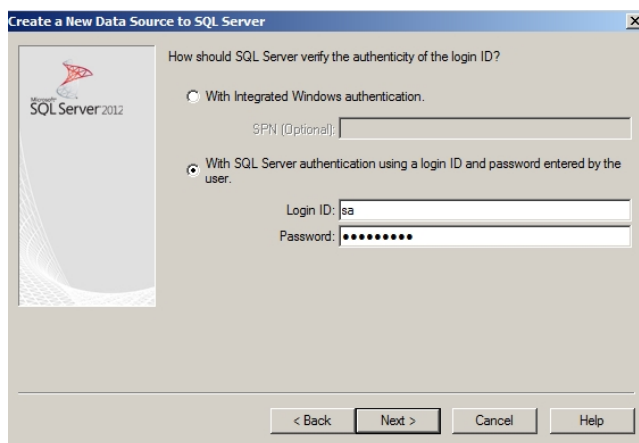
4. In the new window, enter the text "Attninfo" in the "Name" field.
In the "Server" combo select the SQL server where the database that we created in step A is located.
Note: If the server does not appear, it is probably because the SQL search service is not enabled. Enable it to show the SQL server.



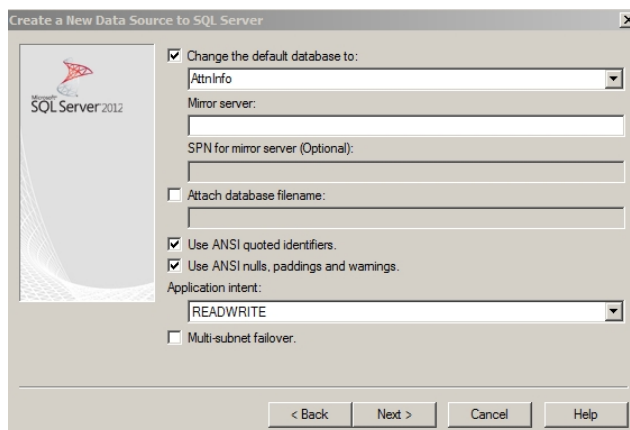
5. In the next window select the option "With SQL Server Authentication ..."
Check the box "Connect with SQL Server to get ..."

In the field "Login ID" enter the user eg: sa

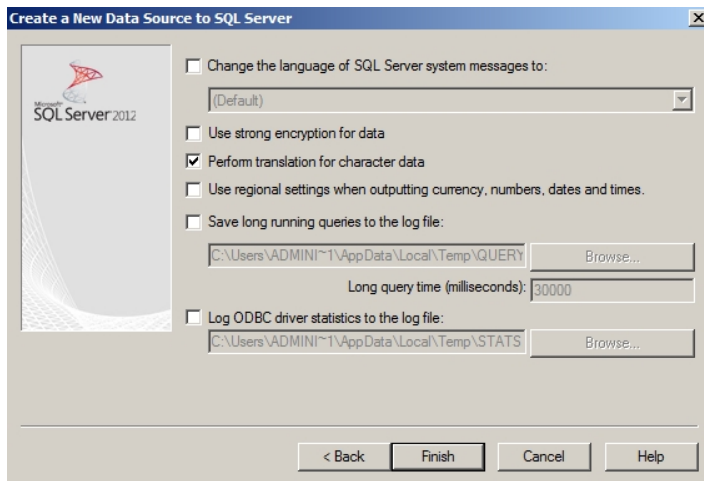
In the field "Password" enter the password of the selected user and press "Next"



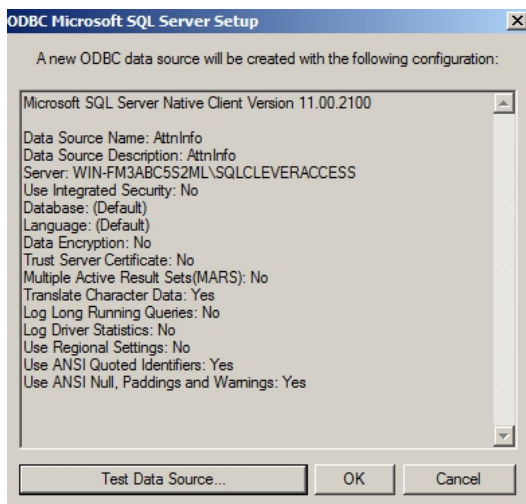
6. In the next window select the database "AttnInfo" and press "Next"



7. In the next window just press the "Finish" button



8. Finally, press the "Test" button and verify that it is successful



Close ODBC by simply pressing "OK".

C: Modify configuration file to link with ODBC

Go to the "Clever Access 2.0" installation directory and open the file "Clever Access 2.0.exe.config" with text editor.

In the string "<add key =\" ODBC2 \"

Change the sentence as indicated below:

```
<add key="ODBC2" value="true*$$DSN= Attninfo;Uid=sa;Pwd=<password of sa>*$$yyyy-MM-dd*$$insert into AttnInfo(Empcode,EntryDate,EntryTime,DeviceID) values('@empcode@','@logdate@','@logtime@','@deviceid@');" />
```

Save it and close it.

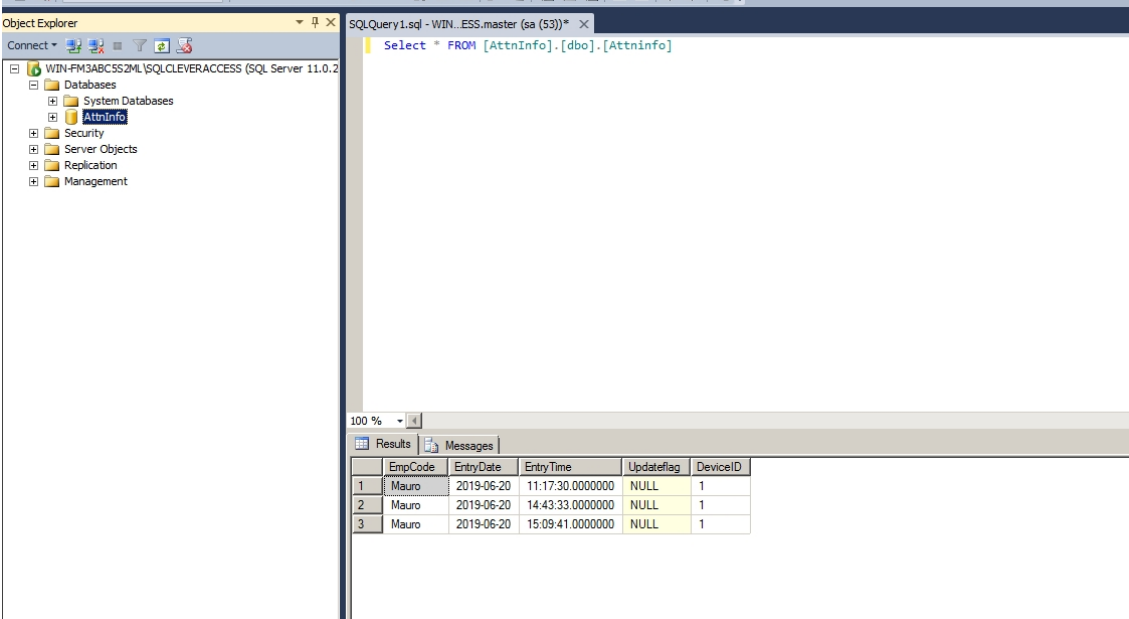
Restart CleverAccess2.0 Program if it is already running. Pl. note the changes will take effect only after the restart.

D: Test

1. Download punch data in Clever Access 2.0 Software.
2. Go to the database "AttnInfo" in SQL Server, press the right button and select "New Query".
In the blank field, enter the following sentence:

```
Select * FROM [Attninfo].[dbo].[Attninfo]
```

It will show all newly downloaded punch data in the table.



The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the Object Explorer with the 'AttnInfo' database selected. The right pane shows a SQL query window with the following query:

```
Select * FROM [Attninfo].[dbo].[Attninfo]
```

The Results pane at the bottom displays the following data:

	EmpCode	EntryDate	EntryTime	Updateflag	DeviceID
1	Mauro	2019-06-20	11:17:30.0000000	NULL	1
2	Mauro	2019-06-20	14:43:33.0000000	NULL	1
3	Mauro	2019-06-20	15:09:41.0000000	NULL	1

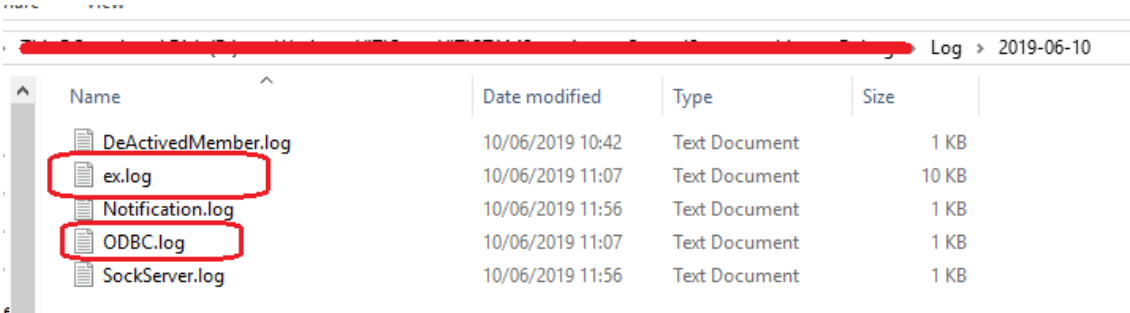
If no data found, Pl. refer Troubleshoot section below.

E: Troubleshoot

Go to Clever Access 2.0 installation path.

Under the “Log” directory search current date directory (yyyy-MM-dd) formatted name e.g. 2019-06-10.

Check ODBC.log is present?



Name	Date modified	Type	Size
DeActivatedMember.log	10/06/2019 10:42	Text Document	1 KB
ex.log	10/06/2019 11:07	Text Document	10 KB
Notification.log	10/06/2019 11:56	Text Document	1 KB
ODBC.log	10/06/2019 11:07	Text Document	1 KB
SockServer.log	10/06/2019 11:56	Text Document	1 KB

If not, means

1. Changes done in CleverAccess 2.0 Software Configuration file is not in effect. Pl. re-start CleverAccess 2.0 Software and test it again.
2. Punch data is not downloaded after restart is done. So please, try download some data and check once again.
3. Please check section “**B: Create ODBC DSN**” – Please, ensure driver selection should be “SQL Native Client” and compatible with 32-bit.

If “ODBC.log” is found, Open it and check for the message written over there. If no error message, Please check “ex.log” file.

Please verify the setting according to the messages available in both files.

Sometimes Date and Time format is creating problem. So need to change Date and Time format (Regional Settings in Windows OS) according to the error message found in “ODBC.log”.