



# VbaRobot®

VbaRobotServer (Bot)

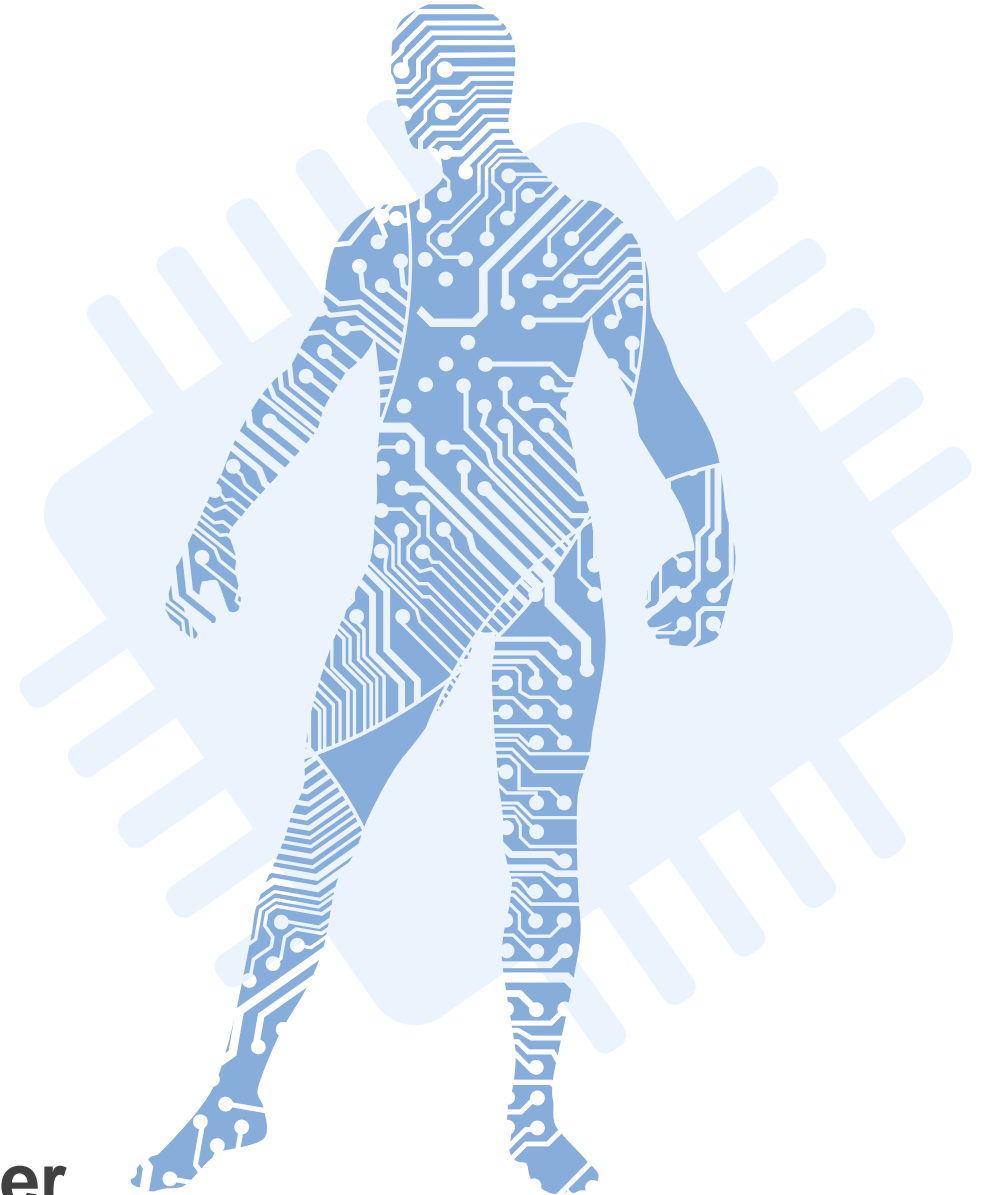
VbaRobvotProcessMaster

connecting to SQL Server

*part of myCheapBots.com*



# Agenda

- 1 Purpose**
- 2 Prepare .mdb file**
- 3 Create SQL Server database**
- 4 Prepare connection string**
- 5 Connect the Bot to SQL Server**
- 6 Connect processes to SQL Server**



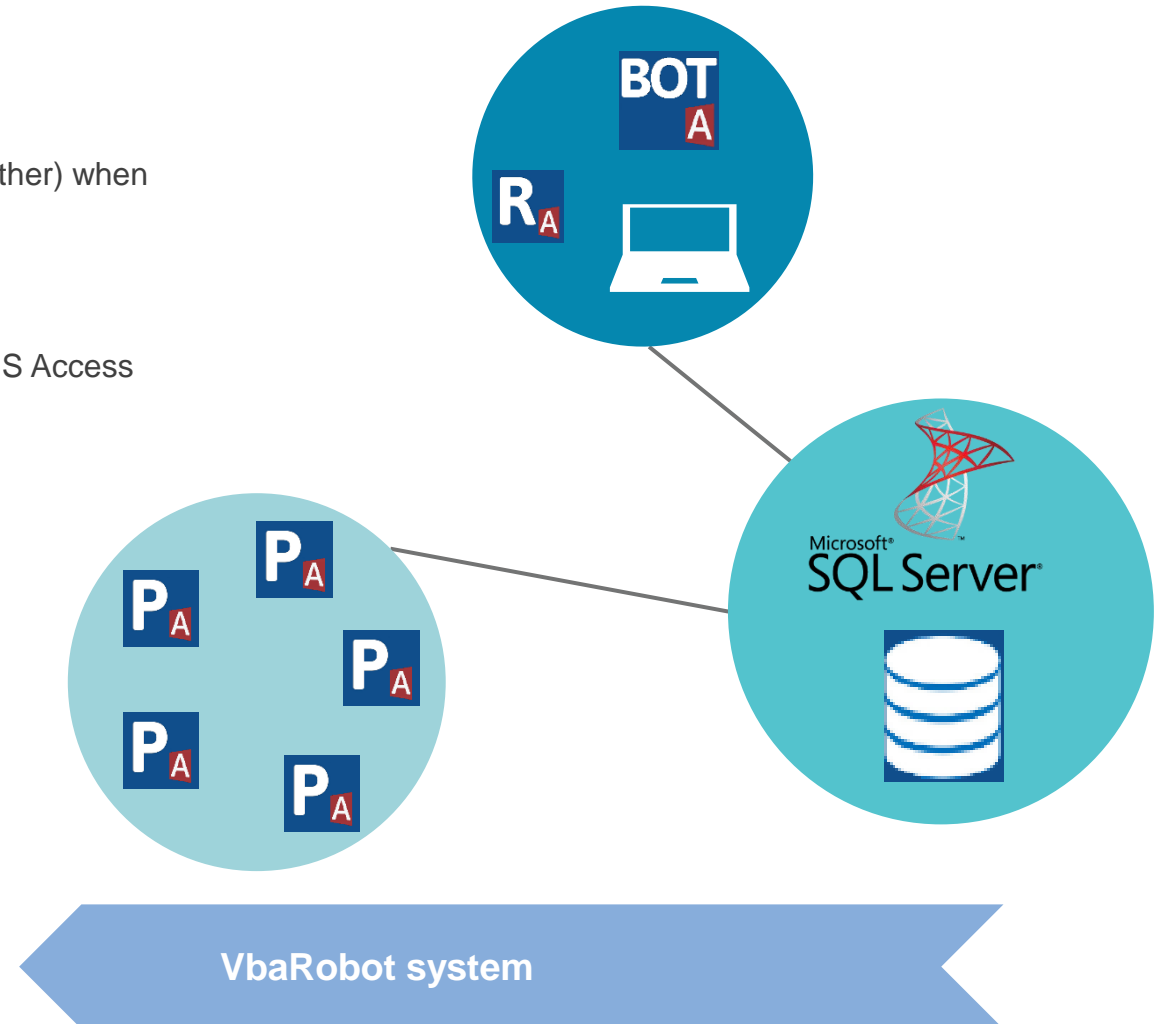


# 1. Purpose

VbaRobotServer (Bot) file   
VbaRobvotProcessMaster files   
-> connecting to SQL Server.

You can change your database from MS Access to SQL Server (or other) when you need to :

- increase **capacity** of data
- improve **stability** of read/write with many Bots system
- improve **recovery**
- there are many other advantages to using SQL Server instead of MS Access

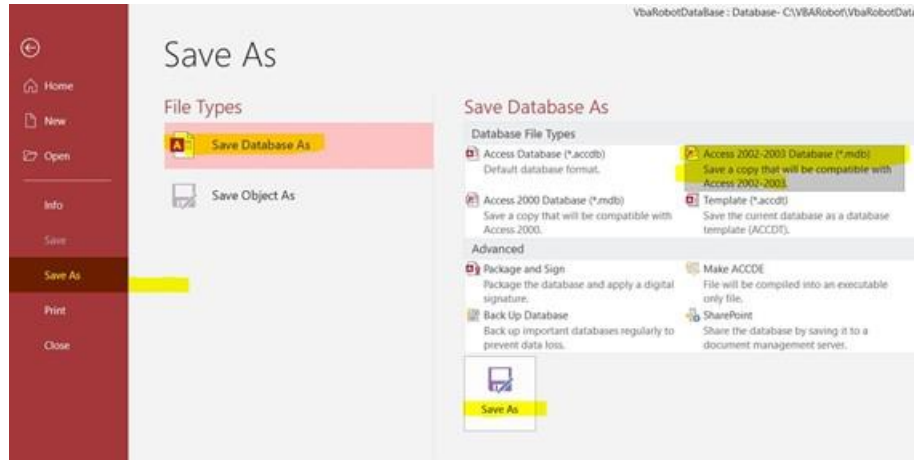




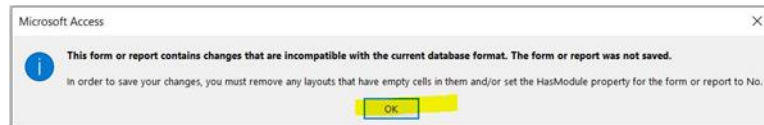
# 2. Prepare mdb file

Use original C:\VBARobot\Resources\VbaRobotDatabase.mdb file to import data and structure by SQL Server Management Studio. If you have already own data inside Access database you can create again „.mdb” file by following points:

- Open **VbaRobotDatabase.accdb**
- SaveAs **VbaRobotDatabase.mdb**

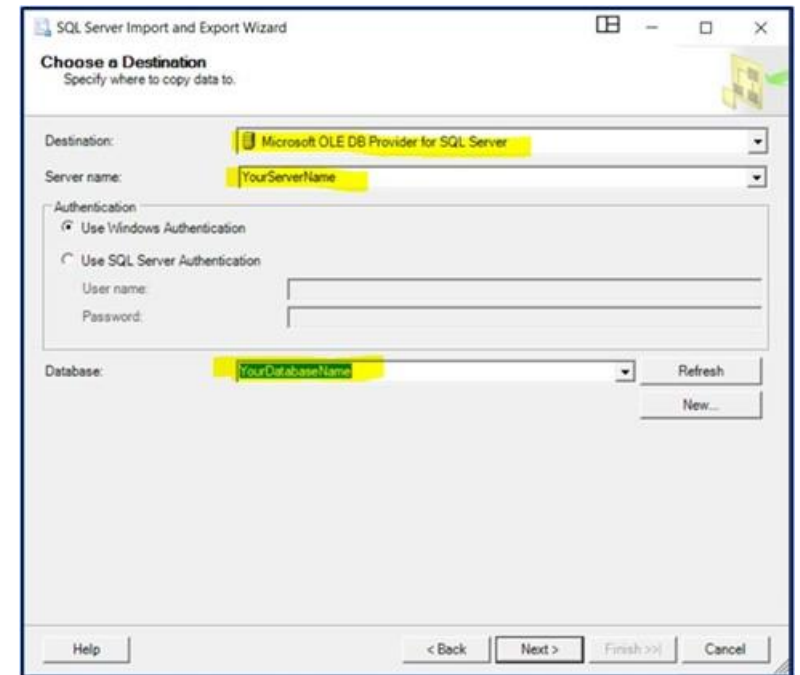
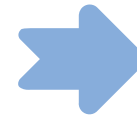
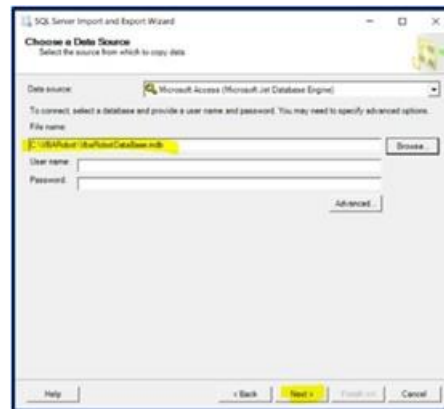
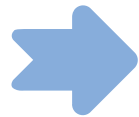
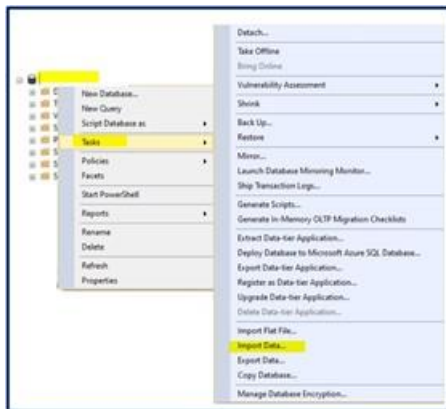


- Confirm a info box.



# 3. Create SQL Server database

a) Open SQL Server Management Studio and import data using **VbaRobotDatabase.mdb** file, choose your destination:

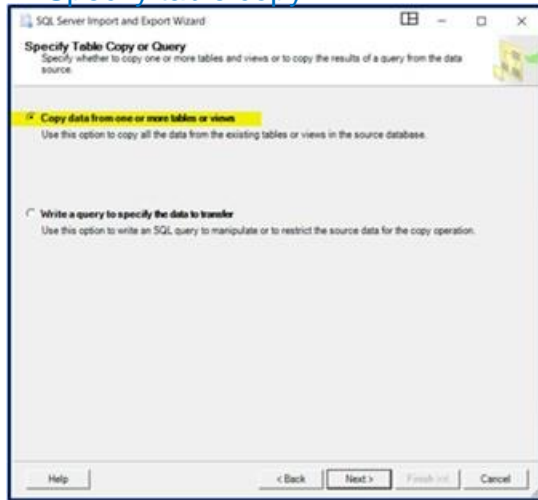




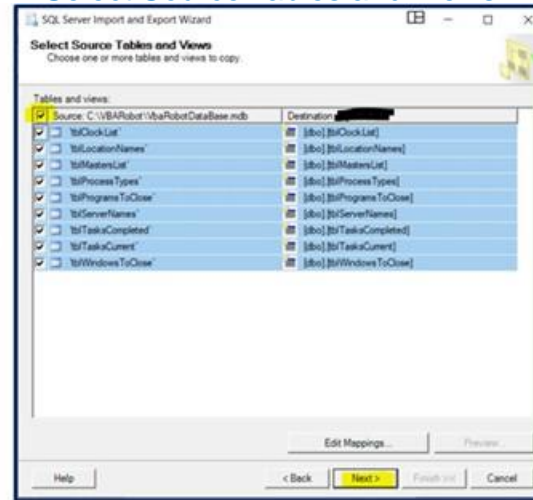
# 3. Create SQL Server database

b) Go through next steps:

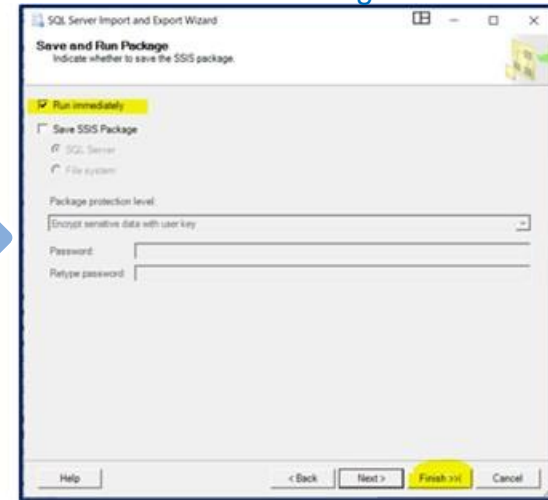
## 1. Specify table copy



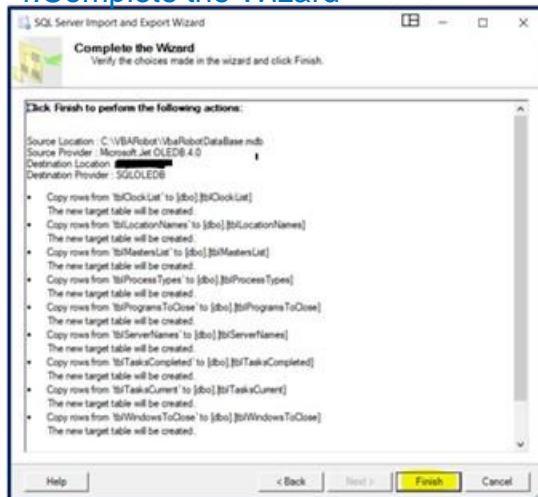
## 2. Select Source Tables and Views



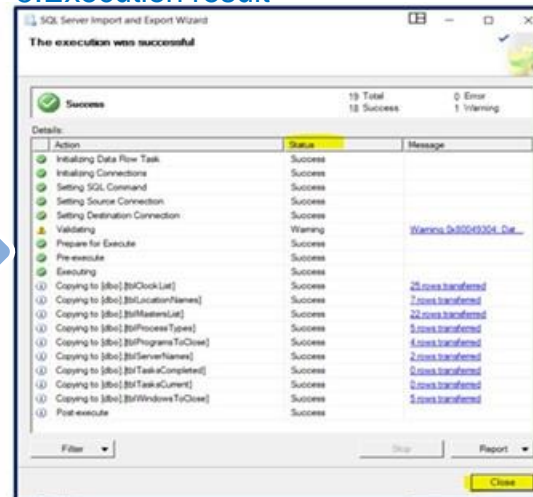
## 3. Save and Run Package



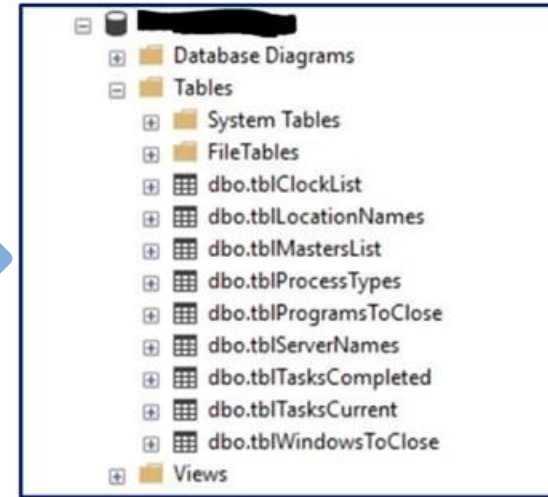
## 4. Complete the Wizard



## 5. Execution result



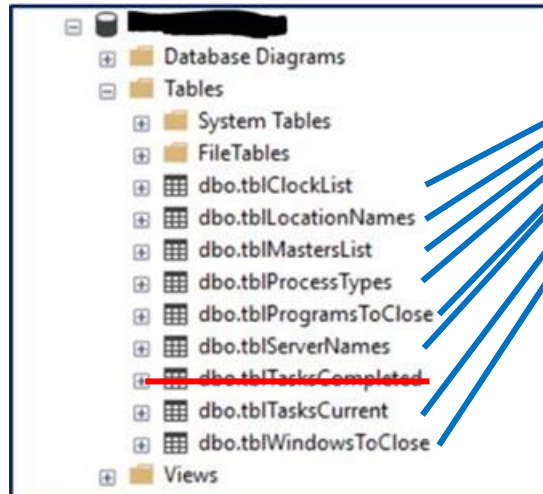
## 6. Check table structure inside database



# 3. Create SQL Server database

c) Modify tables design:

Modify following 8 tables :  
\*except „dbo.tblTasksCompleted”



1. Set Primary Key on ID column

2. Choose ID as Identity column

Column Name	Data Type	Allow Nulls
ID	int	<input type="checkbox"/>
EmailCC	nvarchar(MAX)	<input type="checkbox"/>
OwnerEmail	nvarchar(MAX)	<input type="checkbox"/>

Column Properties	
<b>(General)</b>	
(Name)	ID
Allow Nulls	No
Data Type	int
<b>Table Designer</b>	
Collation	<database default>
Computed Column Specification	
Condensed Data Type	int
Description	
Deterministic	Yes
DTS-published	No
Full-text Specification	No
Has Non-SQL Server Subscriber	No
<b>Identity Specification</b>	Yes
(Is Identity)	Yes
Identity Increment	1
Identity Seed	1
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replication	No
Replicated	No
RowGuid	No
Size	4
<b>Identity Specification</b>	

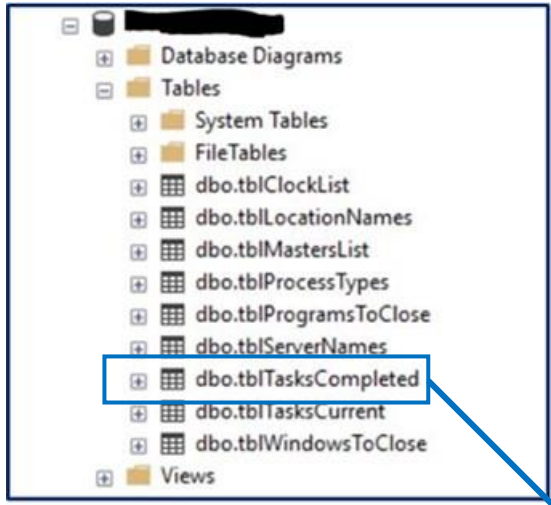
Properties	
<b>[Tb] dbo.tblClockList</b>	
Identity	
(Name)	tblClockList
Database Name	[redacted]
Description	
Schema	dbo
Server Name	[redacted]
Table Designer	
Identity Column	ID
Indexable	Yes
Lock Escalation	Table
Regular Data Space Specification	PRIMARY
Replicated	No
Row GUID Column	
Text/Image Filegroup	PRIMARY

# A 3. Create SQL Server database

d) Modify **dbo.tblTasksCompleted** table:

1. Set Primary Key on **tID** column

2. Choose **tID** as Identity column



Column Name	Data Type	Allow Nulls
GlobalStatus	nvarchar(255)	<input checked="" type="checkbox"/>
ProcessActStatus	nvarchar(MAX)	<input checked="" type="checkbox"/>
Start_counter	int	<input checked="" type="checkbox"/>
ServerStartDate	nvarchar(255)	<input checked="" type="checkbox"/>
LT_min	int	<input checked="" type="checkbox"/>
Slave_process_file	nvarchar(MAX)	<input checked="" type="checkbox"/>
Slave_process_folder	nvarchar(MAX)	<input checked="" type="checkbox"/>
Master_process_file	nvarchar(MAX)	<input checked="" type="checkbox"/>
Master_process_folder	nvarchar(MAX)	<input checked="" type="checkbox"/>
ServerStatus	nvarchar(MAX)	<input checked="" type="checkbox"/>
ServerError	nvarchar(MAX)	<input checked="" type="checkbox"/>
ProcessStartDate	nvarchar(255)	<input checked="" type="checkbox"/>
ProcessFinishDate	nvarchar(255)	<input checked="" type="checkbox"/>
ProcessStatus	nvarchar(MAX)	<input checked="" type="checkbox"/>
ProcessWarning	nvarchar(MAX)	<input checked="" type="checkbox"/>
ProcessError	nvarchar(MAX)	<input checked="" type="checkbox"/>
EmailSentTo	nvarchar(MAX)	<input checked="" type="checkbox"/>
EmailSentCc	nvarchar(MAX)	<input checked="" type="checkbox"/>
EmailSentDate	nvarchar(255)	<input checked="" type="checkbox"/>
Info1	nvarchar(MAX)	<input checked="" type="checkbox"/>
Info2	nvarchar(MAX)	<input checked="" type="checkbox"/>
Info3	nvarchar(MAX)	<input checked="" type="checkbox"/>
Server_Name	nvarchar(50)	<input checked="" type="checkbox"/>
Process_Type	nvarchar(50)	<input checked="" type="checkbox"/>
LocationName	nvarchar(50)	<input checked="" type="checkbox"/>
Saving_min	int	<input checked="" type="checkbox"/>
<b>tID</b>	int	<input type="checkbox"/>

Properties for [Tbl] dbo.tblTasksCompleted:

- Identity Column: **tID**
- Identity Column Indefinite: Yes
- Lock Escalation: Table
- Replication Data Space Specification: PRIMARY
- Row GUID Column: No
- Text/Image Filegroup: PRIMARY

Context menu for 'tID':

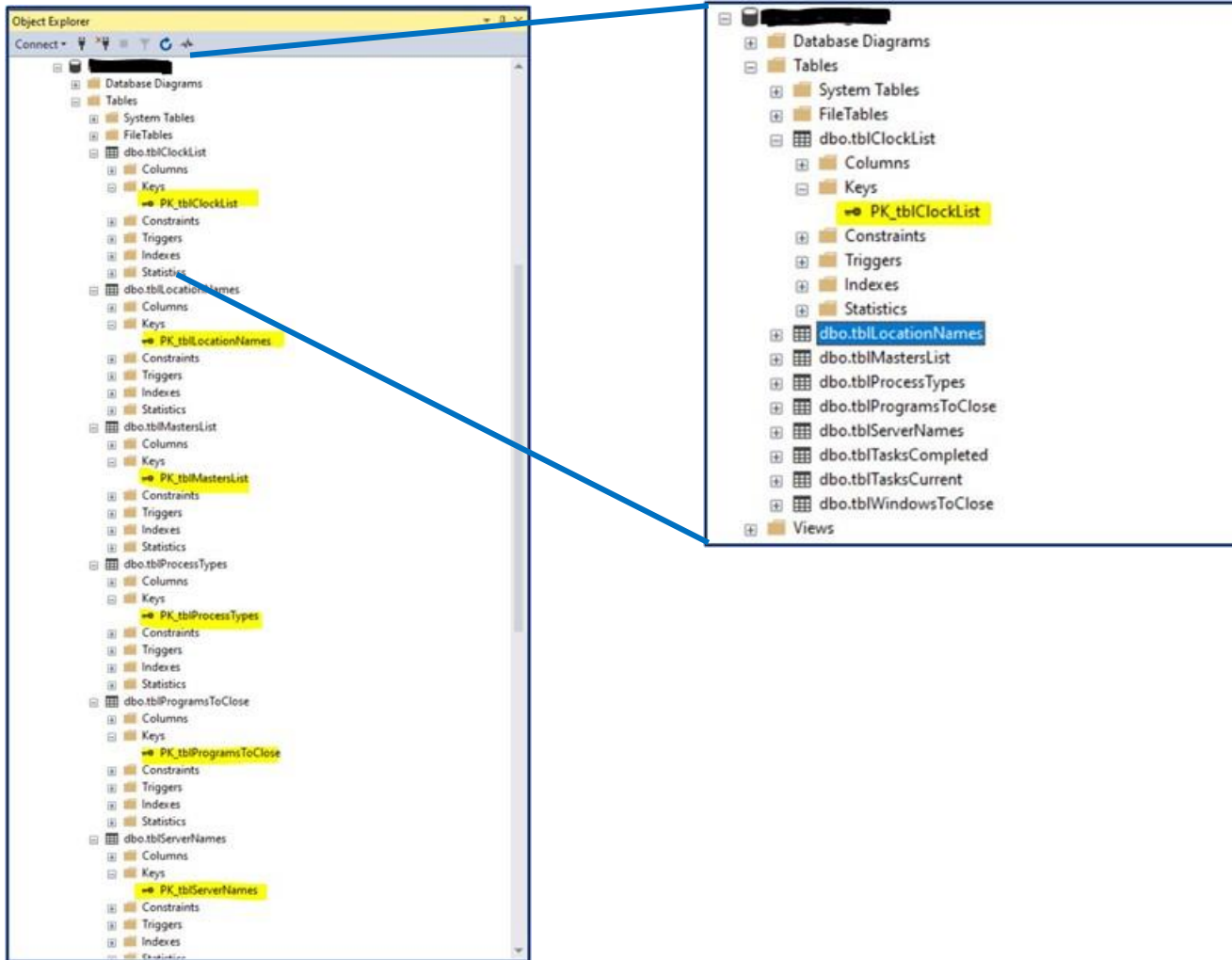
- Set Primary Key
- Insert Column
- Delete Column
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties

check



# A 3. Create SQL Server database

e) Check if you got below keys for all 9 tables (below example for 6 tables).

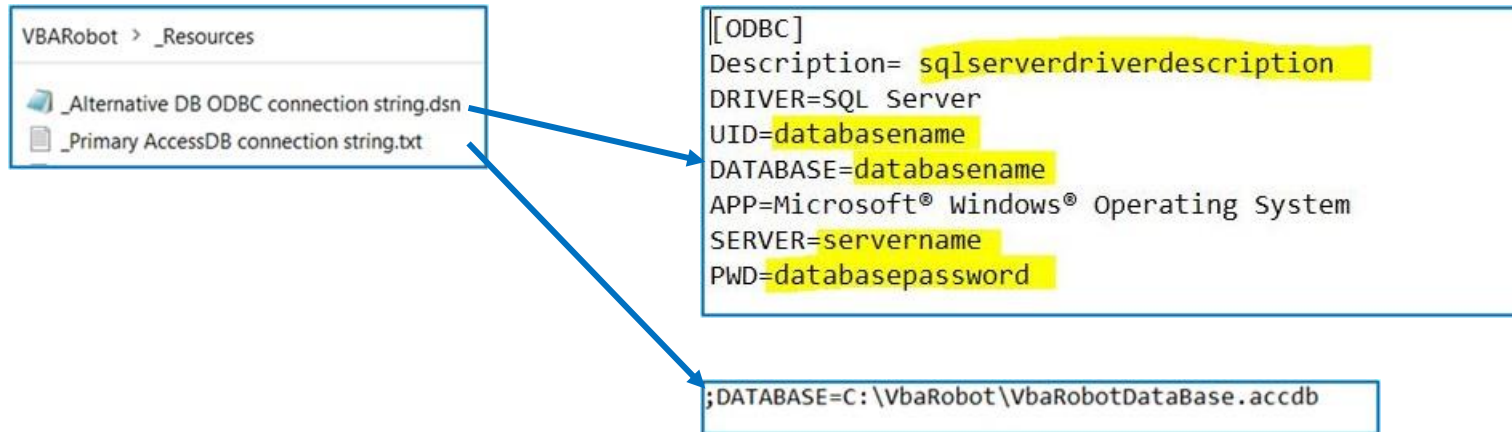




# 4. Prepare connection string

Prepare connection strings for Alternative database – replace yellow marked text with own data.

*\*Examples of connecting strings for Alternative and Primary database are located in folder „C:\VbaRobot\\_Resources“.*



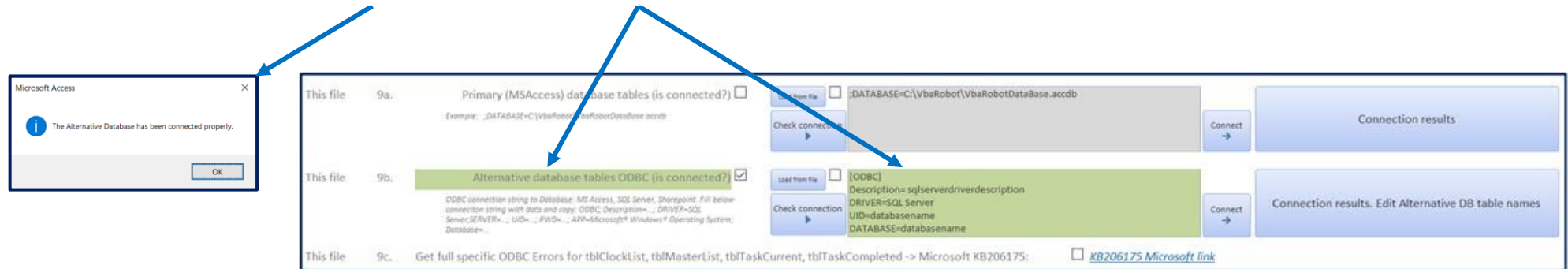
# 5. Connect the Bot to SQL Server

a) Open VbaRobotServer and go to Settings.



b) Connect the Bot to Alternative database (e.g. Microsoft SQL Server):

- load connection string from file ... or tick to open and write connection manually,
- check connection result if not connected -> click the appropriate button.
- you can modify SQL Server tables names in links -> click the appropriate button.
- connect the Bot to SQL database -> if OK you will get MsgBox and 9b. fields became green,



# 6. Connect processes to SQL Server

Connect table „tblTasksCurrent” from SQL Server in all MasterProcess files:

*\* in future we will develop and share a tool to reconnect tables in process master files automatically*

## 1.Delete current link

Execute manually

## 2.Select your SQL Server database

Execute manually

## 3.Choose link

6 Check name and data from SQL Server table

## 4.Select dbo.tblTasksCurrent from list & confirm

Save Password

## 5.Rename table to „tblTasksCurrent”

Execute manually

Execute manually



# Thank You

**vbarobot.com**  
part of  
**mycheapbots.com**