

Setting up Voltech AT Server Result's to use Azure Hosted SQL database

QUESTION

Can I use the AT SERVER to write directly to a cloud hosted AZURE database?

ANSWER

Yes, this can easily be done.

The only issue to be aware of is that Azure requires “Clustered Indexes” to work which don’t automatically set when you import a MDB database into AZURE.

The following steps walk you through the set up and import of a traditional MDB database into AZURE and explains how to convert the indexes.

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A, SETUP DATABASE on AZURE (or import existing MDB)

1, Create a blank MS Access database (Mdb) and connect to AT SERVER – this will initialise the 4 database tables ready for import to SQL.

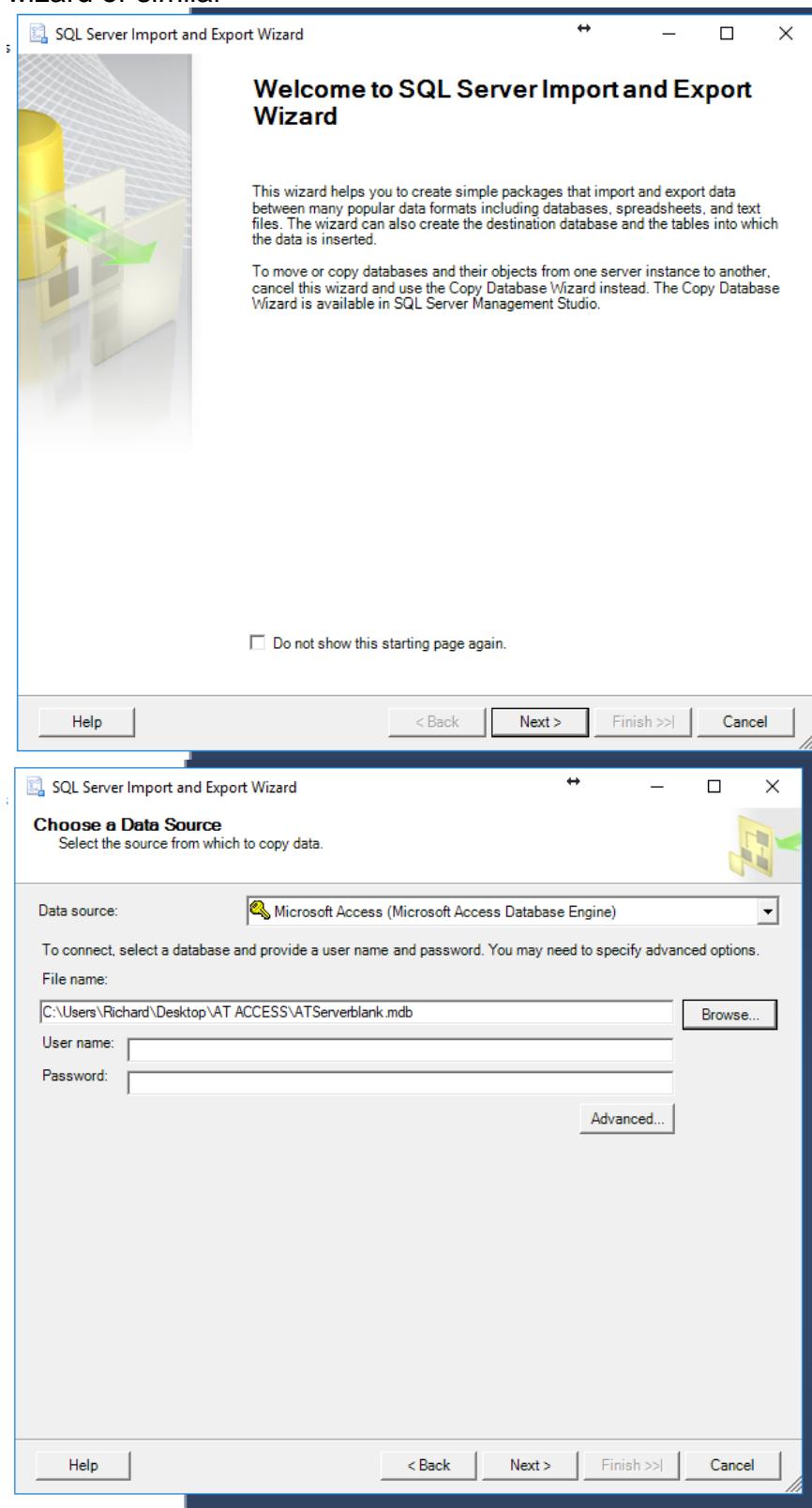
Alternatively, you may already have a MDB database with results ready to import.

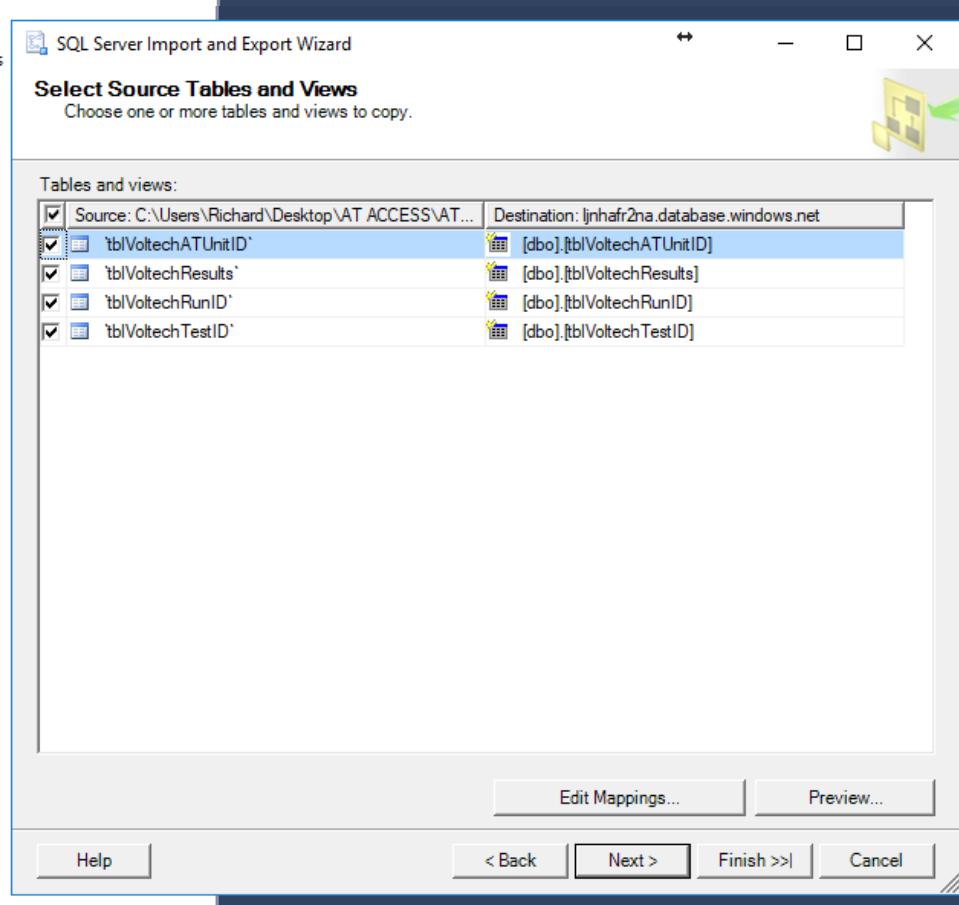
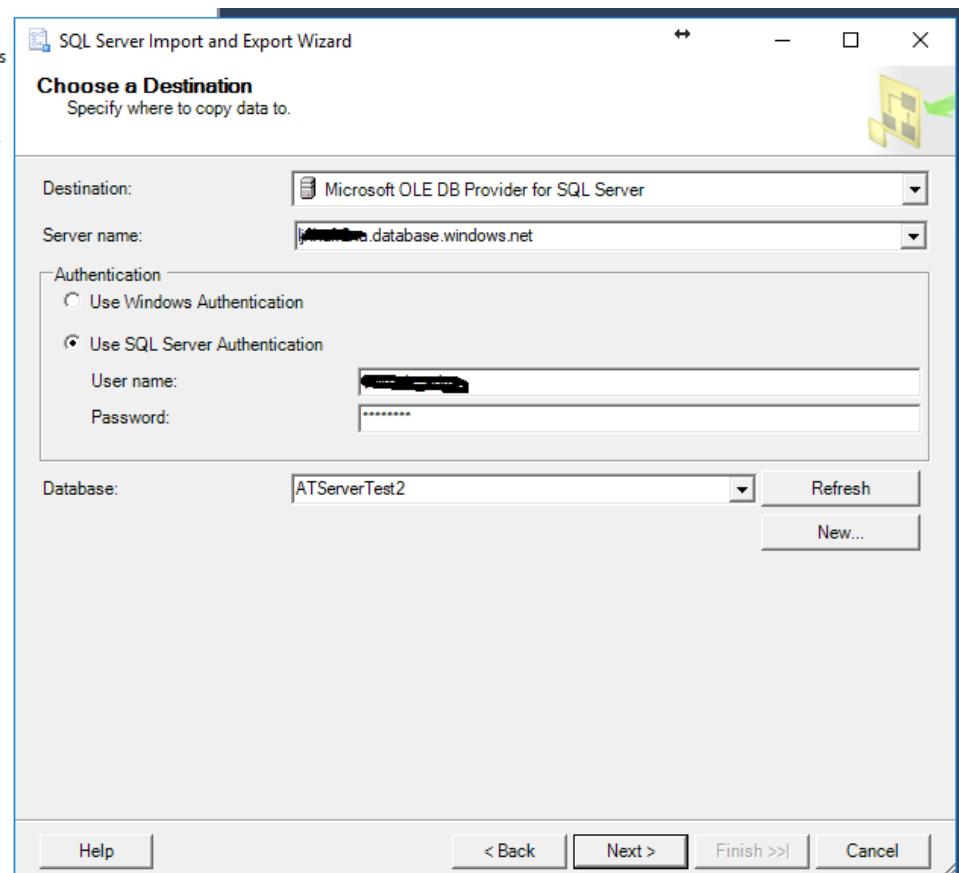
The screenshot shows the Microsoft Access ribbon interface with the 'Database Tools' tab selected. The 'Tables' section on the left lists several tables: 'tblVoltechResults', 'tblVoltechATUnitID' (which is currently selected and highlighted in pink), 'tblVoltechRunID', and 'tblVoltechTestID'. The main workspace displays the structure of the 'tblVoltechATUnitID' table, which has four columns: 'ATUnitID', 'UnitType', 'UnitID', and 'FirmwareID'. The first row of data is visible, showing an asterisk (*) in the 'ATUnitID' column and empty cells in the other three columns.

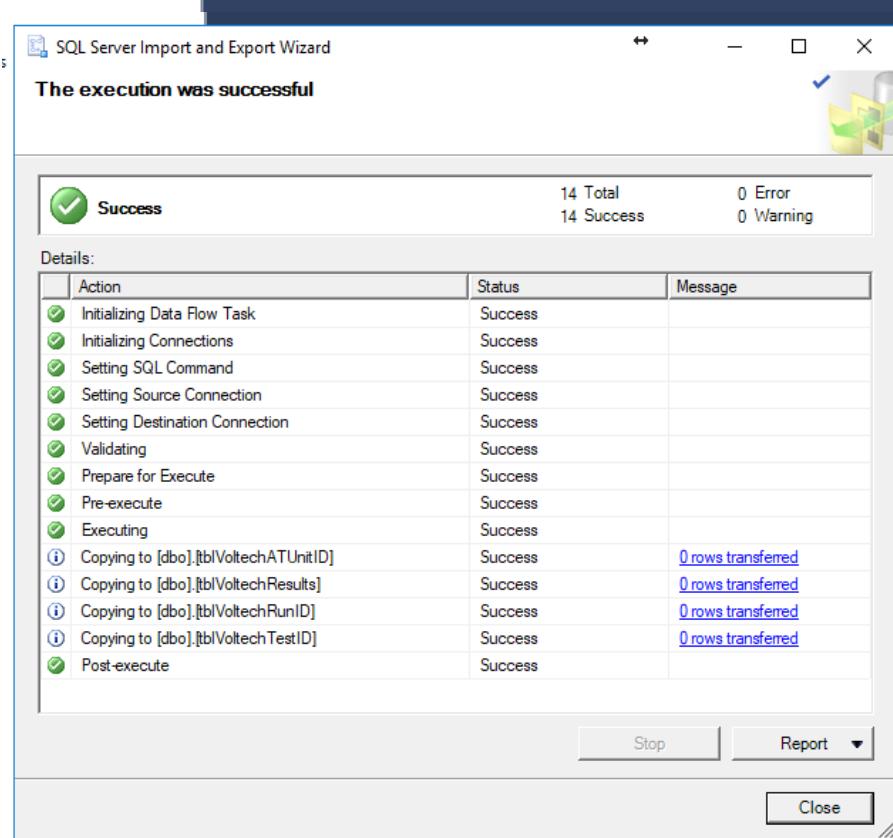
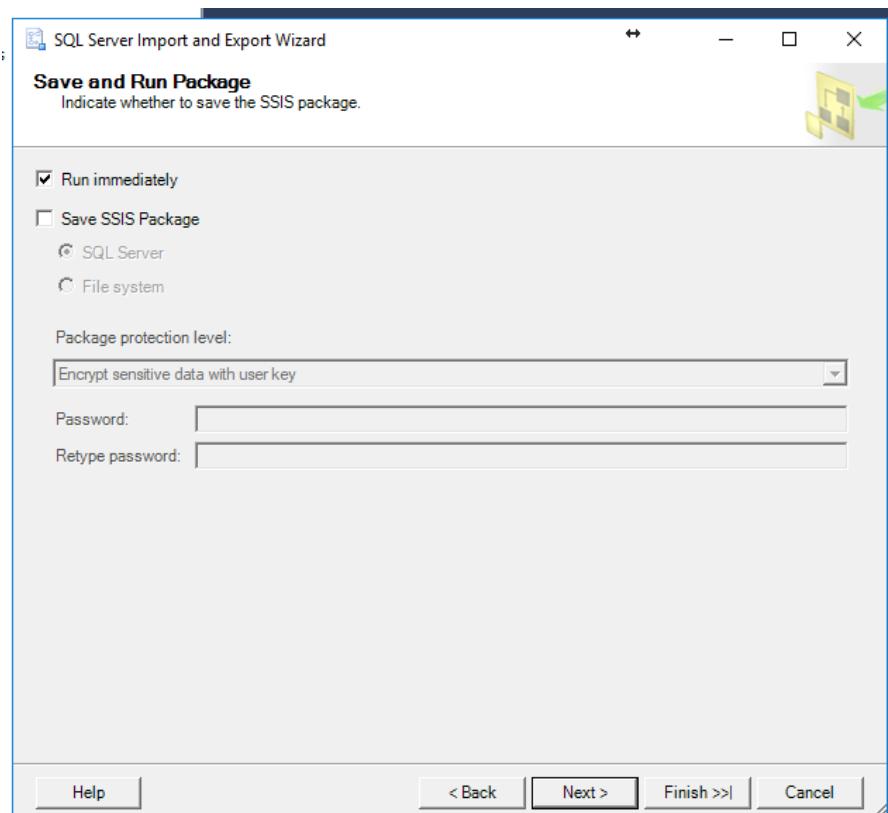
2, Create a blank database on your AZURE hosting site using the web portal

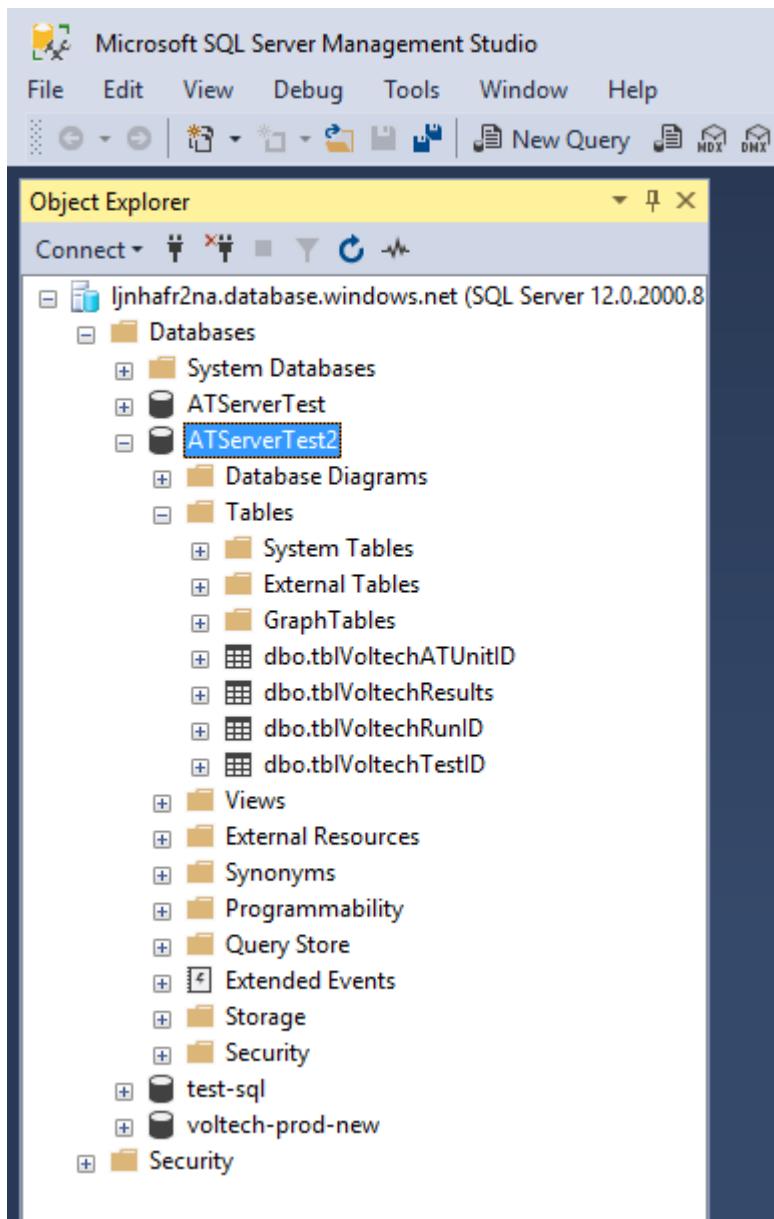
The screenshot shows the Microsoft Azure portal interface for creating a new SQL database. The left sidebar contains navigation links such as New, Dashboard, All resources, Subscriptions, Cost Management + Billing, Resource groups, SQL servers, SQL databases, App Service plans, Users and groups, Storage accounts (classic), and App Services. The main content area is titled "SQL database" and includes fields for Database name (set to "ATServerTest"), Select source (set to "Blank database"), Server (set to "ATServer (northeurope)"), and Pricing tier (set to "Basic: 5 DTU, 500 MB"). Other options like "Want to use SQL elastic pool?" and "Collation" are also visible.

3. Next import your MDB into the AZURE SQL database using the SMSS import wizard or similar





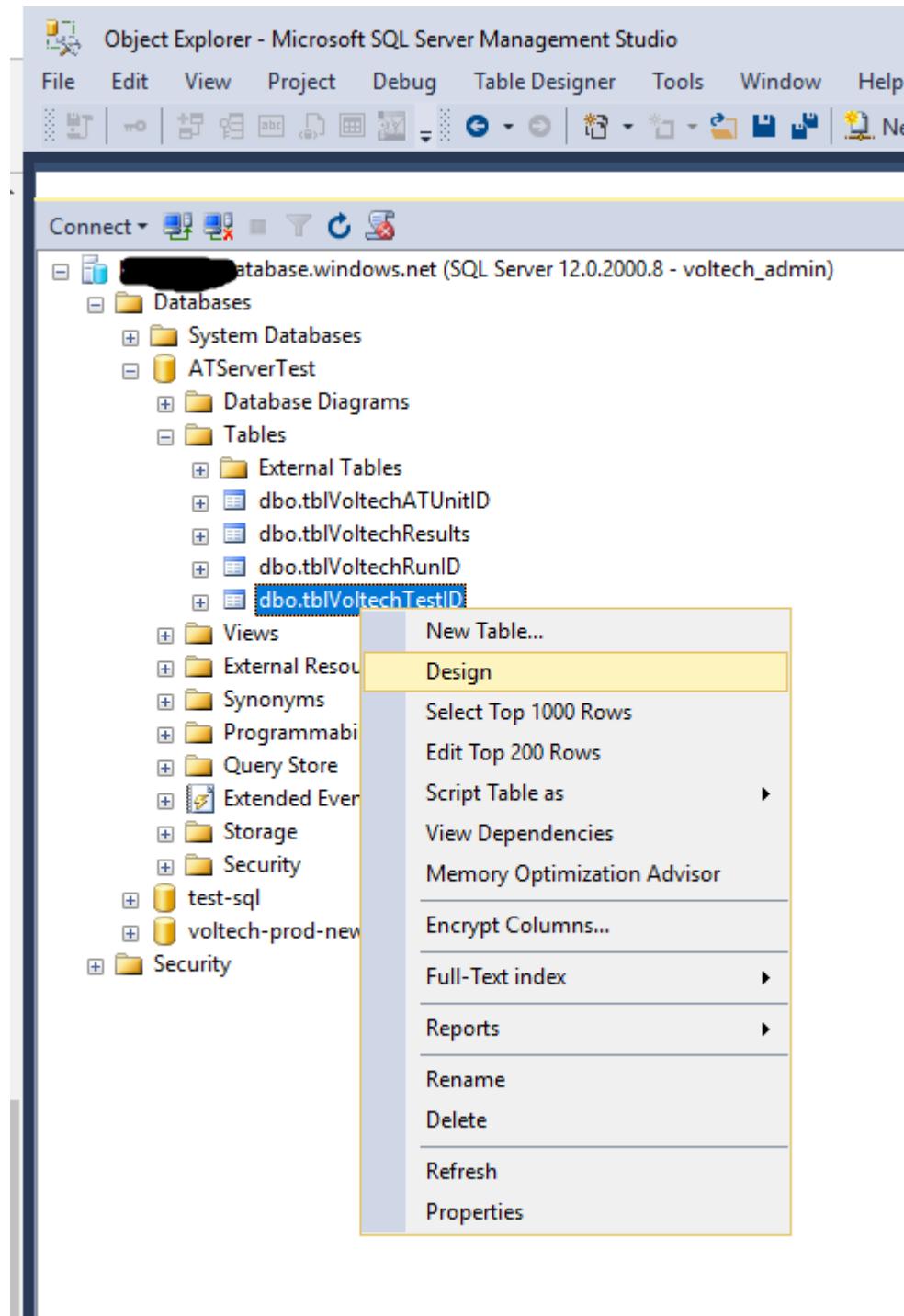




The 4 tables from the MDB now are imported into the SQL database

B, CONVERT 4 x SQL indexes to be CLUSTERED

Do this for the Primary KEY for all 4 tables.



ljhaf2na.ATServerTest - dbo.tblVoltechRunID - Microsoft SQL Server Management Studio

File Edit View Project Debug Table Designer Tools Window Help

New Query

RunID

	Column Name	Data Type	Nullable
1	RunID	nvarchar(10)	
2	Date	datetime	
3	Time	datetime	
4	ATUnitID	nvarchar(50)	
5	PartID	nvarchar(50)	
6	FixtureID	nvarchar(50)	
7	OperatorID	nvarchar(50)	
8	BatchID	nvarchar(25)	<input checked="" type="checkbox"/>
9	TransformerSerialNo	nvarchar(25)	<input checked="" type="checkbox"/>
10	OverallResult	nvarchar(10)	<input checked="" type="checkbox"/>
11			<input type="checkbox"/>

Indexes/Keys...

Relationships...

Fulltext Index...

XML Indexes...

Check Constraints...

Spatial Indexes...

Generate Change Script...

Jnhafr2na.ATServerTest - dbo.tblVoltechATUnitID - Microsoft SQL Server Management Studio

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Jnhafr2na.ATServer...tblVoltechATUnitID Object Explorer

Column Name	Data Type	Allow Nulls
ATUnitID	nvarchar(25)	<input checked="" type="checkbox"/>
UnitType	nvarchar(10)	<input checked="" type="checkbox"/>
UnitID	nvarchar(10)	<input checked="" type="checkbox"/>
FirmwareID	nvarchar(10)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Indexes/Keys ? X

Selected Primary/Unique Key or Index: IX_tblVoltechATUnitID*

Editing properties for new unique key or index.

General

Columns	ATUnitID (ASC)
Is Unique	No
Type	Index

Identity

(Name)	IX_tblVoltechATUnitID
Description	

Table Designer

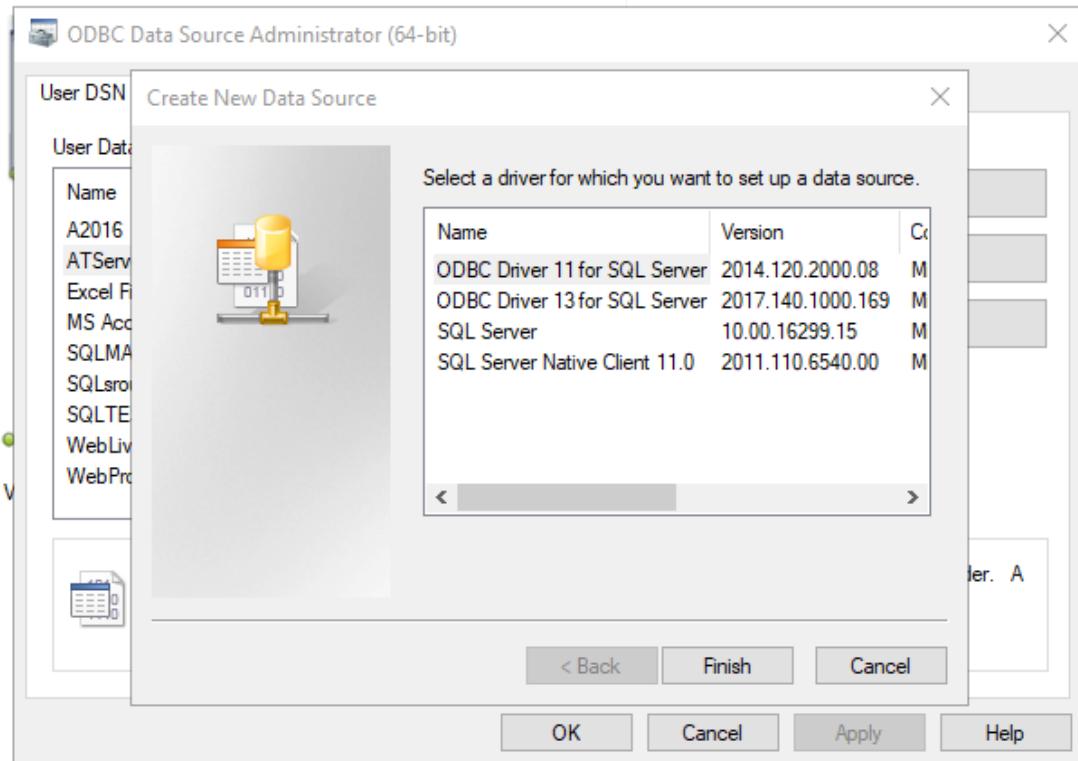
Create As Clustered	Yes
Data Space Specification	PRIMARY
Fill Specification	

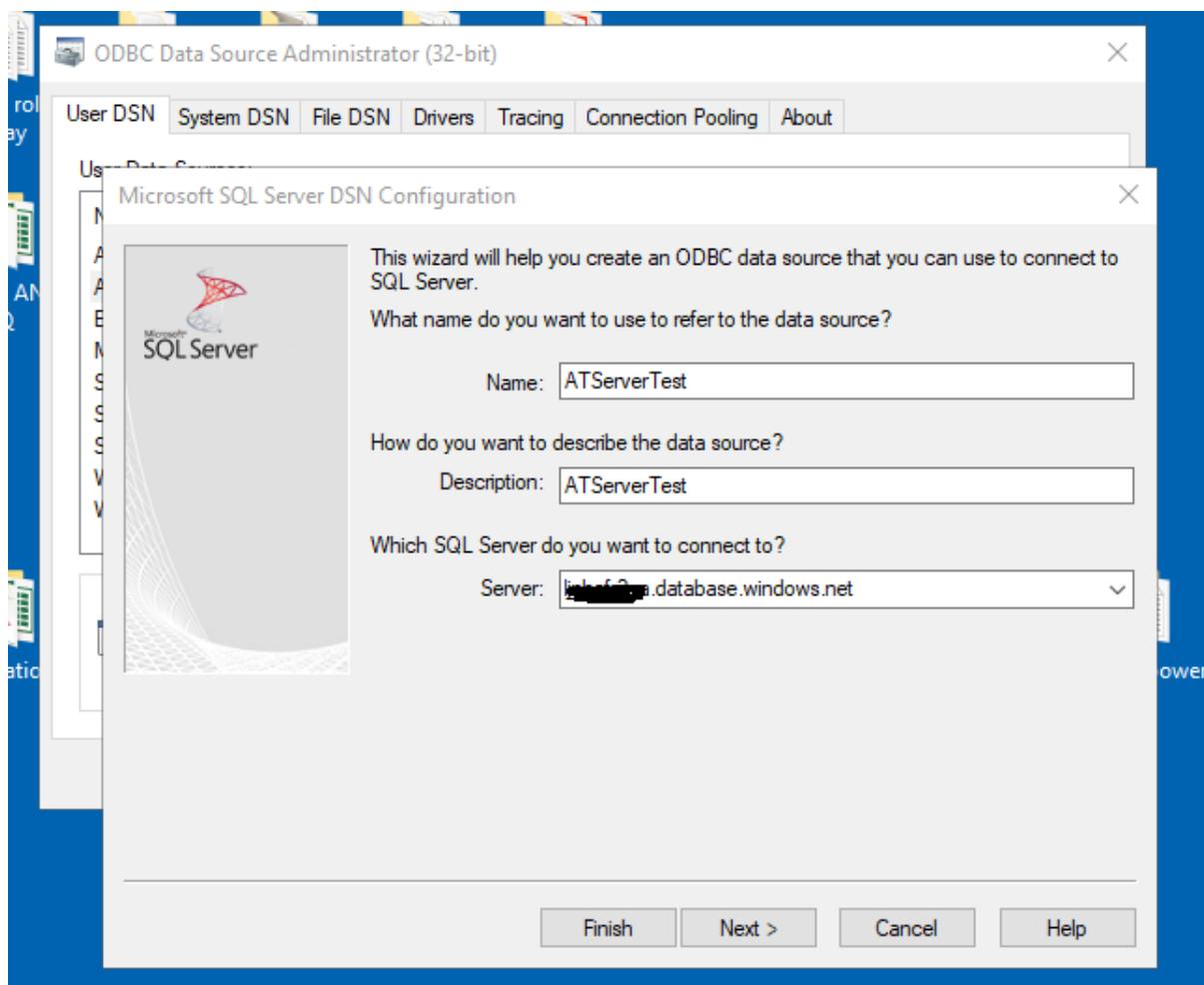
Add Delete Close

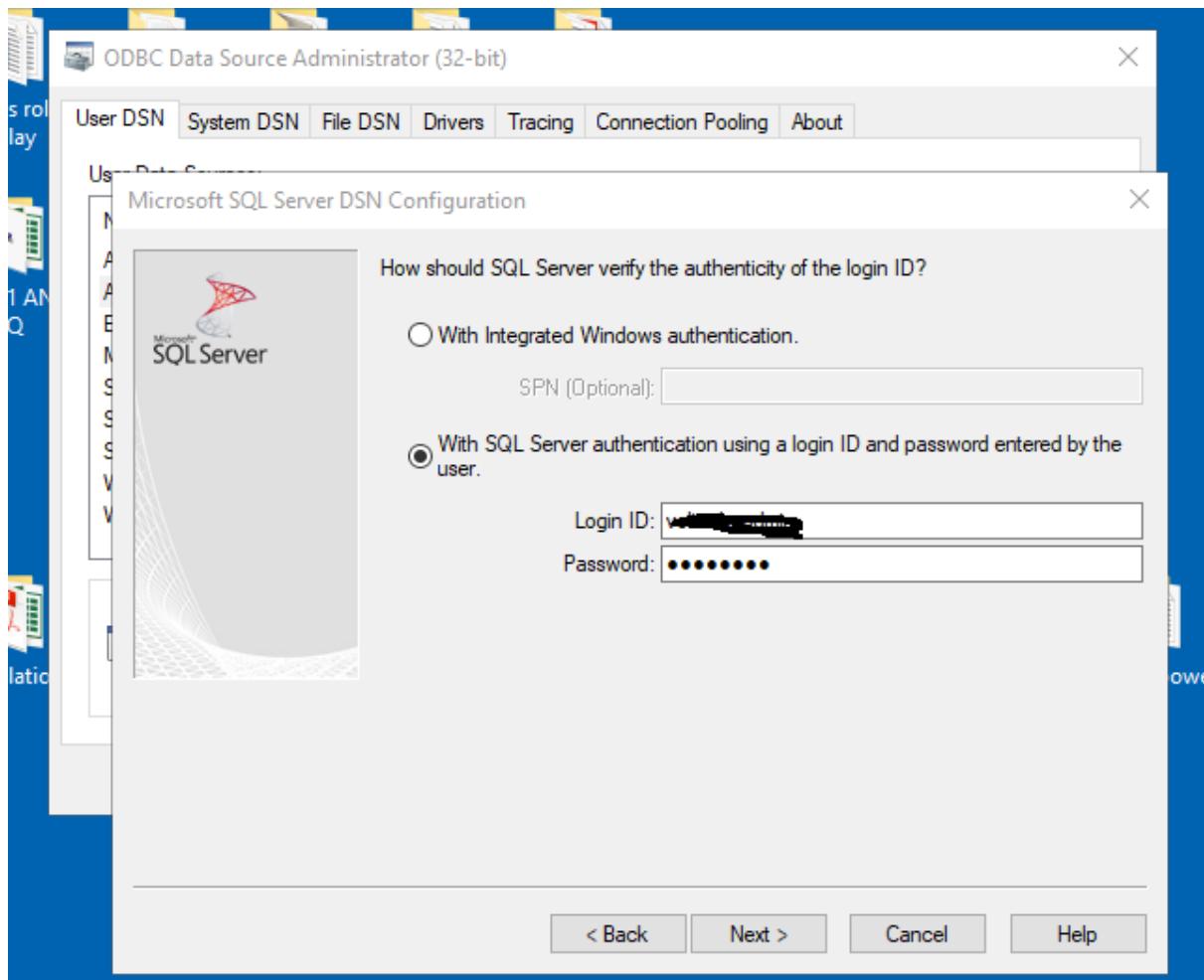


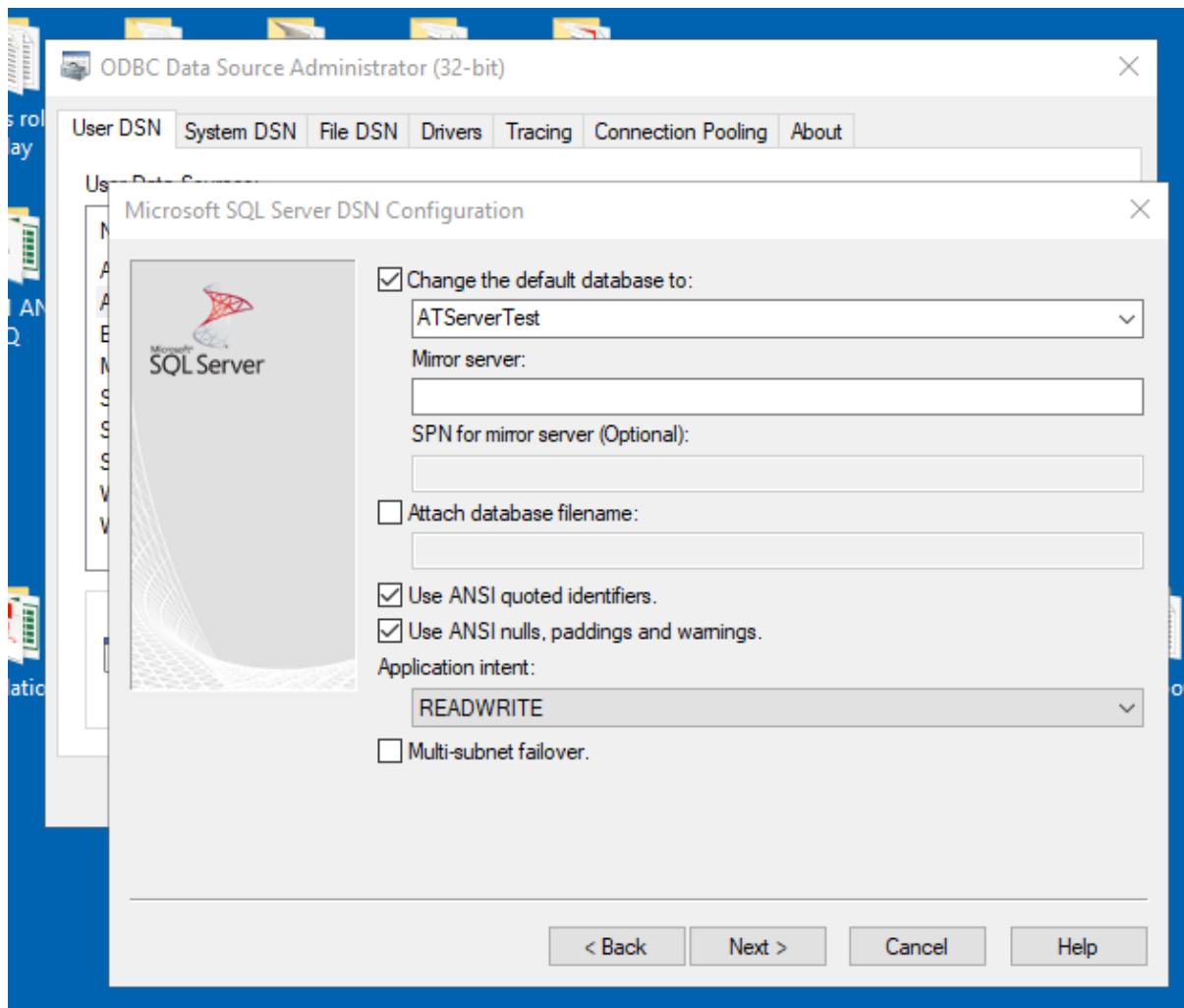
C, CREATE an ODBC data source to point to the SQL database

On the AT SERVER PC, create a new ODBC link









D, CONNECT the AT SERVER to the SQL DATABASE using ODBC

