

Installation Guidance

Version 13.6

TABLE OF CONTENTS

INSTALLATION OVERVIEW	
To test if installation is successful	
1. Setup configurations	4
Standalone installation	4
Network installation	5
Network installation, sepArate database and license server	6
2. Installation of ShipWeight databases on the SQL Server	7
SQL Server software	7
Database installation (Server installation)	7
3. Installation of ShipWeight executable on client machine(s)	11
4. Installation of the LICENSE	18
Network License Setup Procedure	Error! Bookmark not defined.
5. Registration of ShipWeight users on the SQL Server	24
Adding the user group using the SQL Server Management Studio	25
Setting up the user group with Sysadmin permissions	
Setting up the user group with minimum permissions	
Enabling TCP/IP protocols for SQL Express 2005	
SQL Server Configuration Manager	

INSTALLATION OVERVIEW

ShipWeight runs on Microsoft Windows operating systems. The databases run on Microsoft SQL Server 2008 and any version up to and including SQL Server 2019, as well as the EXPRESS editions.

Microsoft SQL Server needs to be installed on the network and set up properly before installation of ShipWeight. If a Microsoft SQL Server installation or license is not available, ShipWeight will run fine on MS SQL Server Express version 2012 and any version up to and including SQL Server 2022.

See <u>https://www.microsoft.com/en-us/sql-server/sql-server-editions-express</u> for download and installation instructions of the free SQL Server version.

ShipWeight will run on 512 KB RAM, however, 1 GB or more is recommended, especially if working with large databases (250.000 weight items or more). There are no other specific hardware requirements beyond what is required to run the operating systems and SQL Server.

To make a complete ShipWeight installation, 4 tasks must be executed:

- 1. Installation of ShipWeight databases on the SQL server (server installation)
- 2. Installation of ShipWeight executables on client machine (client installation)
- 3. Installation of the license
- 4. Registration of ShipWeight users on the SQL server

When installing ShipWeight the user must be logged on with administrator rights.

TO TEST IF INSTALLATION IS SUCCESSFUL

After installation, ShipWeight should be found on the Start menu of the operating system. Start ShipWeight in the ShipWeight login dialog, use the following:

User name	Administrator		Login		
Password	admin		α	ShinW	eight"
System	Standard			Sinpw	cigite
In case of pro	blems or auestions.		Authentication:	Windows	~
please contac	ct:		SQL Server:	RAA-PC\SW	~
ShipWeight S	upport		User Name:	Administrator	
Email: suppor Tel: +47 70 1	rt@shipweight.com 5 03 60		Password:	••••	
		1	System:	Standard	~
				🖌 Open Last Proje	ect
			ОК	(Cancel

1. SETUP CONFIGURATIONS

ShipWeight may be installed in the following configurations:

- Standalone installation
- Network installation
- network installation, separate database and license server

This page and the following two pages will show how these three configurations should be set up.

STANDALONE INSTALLATION

In this case, everything is installed on the same computer so that ShipWeight may run outside a network. The following should then be executed:

Installation of SQL Software (i.e. SQL Express 2017) – See chapter 2
ShipWeight Databases Installation (Server installation) – see chapter 2
ShipWeight Client Installation (Client installation) – see chapter 3
Registering SQL users - see chapter 5

NETWORK INSTALLATION

In this case the ShipWeight executable is installed on client machines on a network, while the databases and the license lock are installed on a network server shared by the clients. This way all client machines log on to the same databases:





NETWORK INSTALLATION, SEPARATE DATABASE AND LICENSE SERVER

This is the same configuration as the previously described network configuration, only in this case the license lock resides on a separate server. All client machines must have access to both servers in this case:



2. INSTALLATION OF SHIPWEIGHT DATABASES ON THE SQL SERVER

SQL SERVER SOFTWARE

Prior to installation of the ShipWeight databases, the server must have installed an instance of Microsoft SQL Server.

See <u>https://www.microsoft.com/en-us/sql-server/sql-server-editions-express</u> for download and installation instructions of the free SQL Server version. The SQL Server must be set up using Windows Authentication for authorization of users.

After an instance of SQL Server is present on the server, the ShipWeight databases can be installed.

DATABASE INSTALLATION (SERVER INSTALLATION)

To start installation of the ShipWeight databases, run **shipweight_server_13.msi** installation file. This file can be found on the ShipWeight website <u>www.shipweight.com/download</u>. This should launch the following welcome dialog:

1	ShipWeigh	t Server 13 - InstallShield Wizard		
	N	Welcome to the InstallShield Wizard for ShipWeight Server 13		
		The InstallShield(R) Wizard will install ShipWeight Server 13 on your computer. To continue, click Next.		
		WARNING: This program is protected by copyright law and international treaties.		
		< Back Next > Cancel		

Click Next...

The next dialog shows the license agreement.

Select the radiobutton "I accept the terms in the license agreement" and click Next...

🛃 ShipWeight Serve	er 13 - InstallS	hield Wizard	×
License Agreement Please read the following license agreen	nent carefully.		
ShipWe Terms, License, a	eight Software and Warranty	e Document	^
IMPORTANT: READ THE TERMS OF THIS DOCUMENT CAREFULLY. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, RETURN THE SOFTWARE AND DOCUMENTATION FOR A FULL REFUND. 1. OWNERSHIP No title to, or ownership of, the Software or Documentation are transferred to the customer. The			
Software, Documentation, and the proprietar property of BAS engineering AS, and the right of the time of the terms in the linear engineering	ry information and ht of the customer	ideas contained ther to use them is subjec	ein remain the t to the terms
 I accept the terms in the license agreem I do not accept the terms in the license a 	ent agreement		FILL
InstallShield			
	< Back	Next >	Cancel

Please click the **Browse...** button to select the appropriate server to install ShipWeight database. Note that you might find the droplist in the "Database Server" combobox to be incomplete. Therefore we do recommend that you select to browse to the correct SQL Server.

If you cannot find the desired SQL Server when browsing, this could happen of the SQL Browser service is not running for the server. In this case you will have to manually enter the name of the SQL Server into this dialog window.

B SI	hipWeight Serv	er 13 - Install	Shield Wizard	×
Database Server Select database se	erver and authentica	tion method		
Select the database server to install to from the list below or click Browse to see a list of all database servers. You can also specify the way to authenticate your login using your current credentials or a SQL Login ID and Password.				
Database Server:				
(local)\SQLEXPRE	SS		~	Browse
Connect using:				
 Windows auth 	entication credential	ls of current user		
O Server auther	ntication using the Lo	gin ID and passwo	rd below	
<u>L</u> ogin ID:	sa			_
Password:				
InstallShield				
		< Back	Next >	Cancel

Once correct server instance name is found or entered, click Next...

B ShipWeight Serve	er 13 - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation	n.
Click Install to begin the installation.	
If you want to review or change any of exit the wizard.	f your installation settings, click Back. Click Cancel to
InstallShield	
	< Back Install Cancel

Finally click "Install" button to execute the installation of the databases.

If installation is successful, at least the following databases should be present on the server:

- SWLogin ShipWeight user database
- sdb_ShipdDb Database for historical ship data
- SWSystem Database for work breakdown structure (one or more)
- SW00_ProjectDB Project database
- SW00_ProjectDB_Log Project log database
- SW04_ProjectDB SWBS Project database
- SW04_ProjectDB_Log SWBS Project Log database

3. INSTALLATION OF SHIPWEIGHT EXECUTABLE ON CLIENT MACHINE(S)

To start installation of ShipWeight executables on the client machine(s), run **shipweight_13_client_64_bit.msi.** This file can be found on the ShipWeight website <u>www.shipweight.com/download</u>. After some initial computer checking a welcome screen should pop up:

😥 ShipWeight	13 Client 64 bit - InstallShield Wizard		
	Welcome to the InstallShield Wizard for ShipWeight 13 Client 64 bit		
	The InstallShield(R) Wizard will install ShipWeight 13 Client 64 bit on your computer. To continue, click Next.		
	WARNING: This program is protected by copyright law and international treaties.		
	< Back Next > Cancel		

Click Next...

BipWeight 13 Client 64 bit - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	~
ShipWeight Software Terms, License, and Warranty Document	^
IMPORTANT: READ THE TERMS OF THIS DOCUMENT CAREFULLY. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, RETURN THE SOFTWARE AND DOCUMENTATION FOR A FULL REFUND.	
1. OWNERSHIP No title to, or ownership of, the Software or Documentation are transferred to the customer. The Software, Documentation, and the proprietary information and ideas contained therein remain the property of BAS engineering AS, and the right of the customer to use them is subject to the terms	*
I accept the terms in the license agreement Print I do not accept the terms in the license agreement	
InstallShield Kext > Cancel Cancel	

The license agreement is displayed. Select radiobutton "I accept..." and click Next...

BipWeight 13 Client 64 bit - InstallSh	nield Wizard ×
Customer Information Please enter your information.	
User Name: John Doe	
<u>O</u> rganization: Vessels Inc.	
Install this application for:	
 Anyone who uses this computer (all users) 	
Only for me (runar@bas.no)	
InstallShield	
< Back	Next > Cancel

Fill in user name and organization and click Next...

1	ShipWeight 13 Client 64 bit - InstallShield Wizard
Destinati Click Nex	ion Folder xt to install to this folder, or click Change to install to a different folder.
	Install ShipWeight 13 Client 64 bit to: C:\Program Files (x86)\ShipWeight 13\ Change
InstallShield -	< Back Next > Cancel

Select folder to install the executables. If you would like to install ShipWeight at a different location than then the default location, click **Change...** button to change the default location of the destination folder.

Click Next...

BhipWeight 13 Client	: 64 bit - Inst	allShield Wiza	rd ×
Database Server Select database server and authenticatio	on method		
Select the database server to install to from the list below or click Browse to see a list of all database servers. You can also specify the way to authenticate your login using your current credentials or a SQL Login ID and Password.			
Database Server:			
(local) \SQLEXPRESS		~	Browse
Connect using:			
 Windows authentication credentials of 	of current user		
\bigcirc Server authentication using the Logir	n ID and passwor	d below	
Login ID: sa			
Password:			
InstallShield			
[< Back	Next >	Cancel

Use **Browse...** button to select the SQL Server containing the ShipWeight databases. Select connection using "Windows authentication..." (default) and click **Next**.

👸 Sh	nipWeight 13 Client 64 bit - InstallShield Wizard
Setup Type Choose the set	tup type that best suits your needs.
Please select a	setup type.
	All program features will be installed. (Requires the most disk space.)
O Custom	Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield ———	< Back Next > Cancel

For a normal installation, select "Complete" as setup type (default) and click next...

😼 ShipWeight 13 Client 64 bit - In	stallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation exit the wizard.	n settings, dick Back. Click Cancel to
InstallShield	
< Back	Install Cancel

Finally click Install to start executing the installation.

Note:

ShipWeight is dependent on pre-installed runtime packages from Microsoft (VS C++ Runtime, SQL Client Drivers, etc) and SAP (Crystal Reports runtime).

These packages are included in the ShipWeight installation packages and if missing they will launch automatically after the ShipWeight install. In this case, finish and close the ShipWeight installation and continue installing these 3rd party packages by following their install windows.

4. INSTALLATION OF THE LICENSE

To install the network license you will need these files:

- CMServer.exe
- ShipWeight.exe.cm

After installing ShipWeight on a client machine you will find these files in this "ShipWeight 13" folder, usually this folder will be:

C:\Program Files (x86)\ShipWeight 13

Steps to install the network license system:

1. Put the license files in a directory on the server. Exactly where this directory is located is left up to you. CMServer must have write access to this folder.



2. Run CMServer.exe with Administrative privileges (right-click on the file and select Run as Administrator). It will display the configuration window.

CMServer Configuration	×					
Products These are the Products that hav instance of CMServer.	ve been detected by this					
SHIPWEIGHT12 (ShipWeight.exe)						
Startup Modes Application Windows Service 	Network Configuration Automatic Custom Options >> 					
Start	Cancel					

3. To minimize potential port conflict with other software using the Copyminder protection system, please change the default port number from 10589 to 43762:

CMServer Configuration Products		×	Network	ork Options		×
These are the Products that instance of CMServer.	nave been detected by this		Port:	43762	~	Ť
SHIPWEIGHT 12 (ShipWeight	.exe)			ОК	Cancel	
Startup Modes	Network Configuration	_				
Application	○ Automatic	_1				
O Windows Service	Custom Options >>					
Start	Cancel					

- 4. You will now need to decide whether you want to run CMServer as an application or a service. Some things to consider regarding this choice:
 - An application requires there to be a user logged in on the machine for it to run. This
 may not always be the case on server machines. If you choose to run CMServer as an
 application and want to have it start automatically when the user logs in, then you must
 create a shortcut to CMServer in that user's Startup start menu folder which gives the
 appropriate command-line parameters to make CMServer start automatically.
 - A service starts automatically when the machine starts and does not require a user to be logged in for it to run. This is now the most common way of running a background task on Windows.
 - Which method is choosen depends on a particular user's needs and requirements. Running CMServer as an application may be the ideal choice initially, while setting up the system, switching to running it as a service when the user has everything set up correctly.

When you have decided how you want to run CMServer select the appropriate option from the Startup Modes section.

5. You are now ready to hit the Start button!

FIREWALL SETTINGS

6. Firewalls

Like most server software, CMServer accepts incoming connections by "listening" on a given IP address and port. If the machine running CMServer also has a firewall (including Windows firewall as well as third party firewall software), then the firewall software will need to be explicitly told to allow the incoming connections to get through to CMServer. Likewise, if a firewall exists on a machine between the server machine (the one running CMServer) and the client machines then this will need to be configured too.

CMServer will in most cases offer to automatically configure the firewall. You may accept this or alternatively manually configure the firewall.





IMPORTANT

Failure to correctly configure your firewall(s) could result in the CopyMinder Server being inaccessible by client machines.

FIREWALL CHECKLIST FOR MANUAL CONFIGURATION (NOT USING AUTOMATIC CONFIGURATION)

- Your firewall(s) must allow both TCP and UDP traffic through to CMServer.
- Your firewall(s) must allow CMServer to accept incoming connections on the IP address and port that you chose when setting up CMServer.
- Clients auto-detect CMServer by performing a **multicast 239.255.219.184** on whichever port you configured CMServer to listen on. Your firewall(s) must not block traffic destined for this address/port, or auto-detection will not work.

•				C₩	ISer	ver	Viev	ver		_		x
File S	Server	Help										
⊡ S	HIPWEI	GHT12 (0 u veight.exe	isers, (0 us	, max ers)	kimun	n is 2))					

CMServer Viewer after successfully starting the license server

7. Select "Configure as network server" and register ShipWeight License Key

SHIPWEIGHT12 Product Registration	\times
Please select one of the following options:	
 Configure as a network server Configure as a trial 	
Please enter your Licence Key below. A Licence Key takes the form: SHIPWEIGHT12-XXXX-XXXX. If you don't have a Licence Key, please contact your software supplier.	t
SHIPWEIGHT12-ABCD-1234-EFGH-5678	
OK Cancel Help	

8. If CopyMinder is unable to establish an Internet connection, it will ask you if you wish to activate the software manually. If you choose to do so, you will be given a unique Installation Code and asked to enter a corresponding Activation Code. You need to give us this Installation Code and your License Key so that we can generate an Activation Code for your particular installation. You can generate this Activation Code yourself on another computer which has Internet access by going to primary.copyminder.com/activate or http://secondary.copyminder.com/activate. The web page will respond with an Activation Code. You should enter the Activation Code and the ShipWeight network license server will then run provided it is not moved from its current location. Should you need to move it, you will need to contact us for help in activating it on the new computer.

CLIENT SIDE

9. On the client side:

If the ShipWeight client is installed under a directory with limited access rights, such as the Program Files directory, you will need to run CMInstall – this can be found in the same place as the ShipWeight executable (usually in "Program Files (x86)\ShipWeight 12" folder).

The first time each installation of your software is run, the user will be prompted to specify what type of installation they want. They should choose Configure as a Network Client. In most cases the software will automatically detect the presence of the CopyMinder Network Server and the details will be filled in for them - all they need to do is click OK.

If the server details do not appear in the text field then it may be that the server is not running or that a firewall is blocking communication between the client and server machines. It will usually be preferable to find and resolve the problem that caused the auto-detection to fail, as this problem could also affect the server and client's ability to communicate with each other during

protection checks. However, it is possible to manually specify the server details to use, in the form SERVER:PORT, where the SERVER part can either be a hostname or an IP address. For example, OFFICESERVER:43762 or 192.168.1.10:43762

SHIPWEIGHT12 Product Registration	Х
Please select one of the following options:	
 Configure as a standalone program Configure as a trial Configure as a network client Please enter the details of the CopyMinder Network Server below. If you do not know this, please contact your network administrator. 	ow
WINSERVER:43762	
OK Cancel Help	

10. When everything is working we recommend to terminate CMServer on the server and restart it as a Windows Service and not an application. Note that you should terminate the server from the File menu of the CMServer window, *not* using the "X" as the "X" only closes the Viewer application but does not terminate the license application (if you did use the "X", please open Task Manager and kill the CMServer process)

	0		CMServer Viewer	_ □	x
	File Server	Help			
Terminate CMServer	SHIPWE	IGHT12 (0 users	, maximum is 2)		
	i ship	weight.exe (0 us	ers)		

CMServer Configuration	×					
Products						
These are the Products that hav instance of CMServer.	ve been detected by this					
SHIPWEIGHT12 (ShipWeight.exe)						
Startup Modes	Network Configuration					
Windows Service Start	Custom Options >> Cancel					

You are now done installing the license system on the server.

5. REGISTRATION OF SHIPWEIGHT USERS ON THE SQL SERVER

ShipWeight logs on to the SQL Server using **Windows Authentication** meaning the **windows user** is passed on from the client machine to the SQL Server.

It is recommended to set up a ShipWeight user group in Windows active directory. This document will not describe how to do this, please see documentation for Windows-

This document will describe the following:

- Add a user group to the SQL Server
 - Adding the user group through GUI
 - Adding the user group through commands
- Check protocol enabling for the SQL Express 2005

ADDING THE USER GROUP USING THE SQL SERVER MANAGEMENT STUDIO

Start "Microsoft SQL Server Management Studio". Expand the SQL Instance and the "Security" folder so you can see the "Logins" folder. Right click the "Logins" folder and select "New Login..." from the submenu.

Microsoft SQL Server Management Studio								
File Edit View Tools Window Community Help								
😫 New Query 🕞 📸 📸 🕞 🕞 😂 🗿 除 🦉	: 😁 🖕							
Object Explorer 👻 🕂 🗙	Summary	Summary						
Connect - 🛃 = 🔄 🍸	🔁 🖸 🦨 🍸 🛛	🛓 🖸 🦨 🍸 🏢 List 🔹 🔤 Report 🔹						
Uppet Explorer Connect - Uppet Connect - Uppet Databases Connect - Uppet Connect - Uppet Conne	Summary Comparison of the second sec	Every Connection projection: Result Resy Progress	Sorpt - Default adabase: Default adaba	Created 25.01.2005 04.11.2004 RAA\ShpWeghtUses Sgech At not logn at not logn Mater Cdefsul> V Cancel	9 Rem(s)			

Figure 1: "Login - New" dialog

In the "Login name" editbox, write the complete domain name of the windows user group you want to give access to the ShipWeight databases. In this example, the domain name is RAA and the user group was called "ShipWeightUsers", so the login name is RAA\ShipWeightUsers.

You can use the "Search..." button to find the user group, but remember to include "Groups" as an object you will be searching for by clicking the "Object Types..." button in the "Select User or Group" dialog. See figure 7 and 8 on next page.

Select User or Group	? 🗙		
Select this object type:			
User or Built-in security principal	Object Types		
From this location:			
RAA	Locations		
Enter the object name to select (<u>examples</u>):			
	Check Names		
Advanced OK	Cancel		

Figure 2: "Select User or Group" dialog

Object Types	? 🗙
Select the types of objects you want to find.	
Object types:	
 Built-in security principals Strategy Groups Strategy Users 	
	OK Cancel

Figure 3: "Object Types" dialog - make sure to check Groups box

Then back in the "Select User or Group" dialog, click the "Advanced..." button to make a search for the user group.

When the name of the user group is in place you are ready to map up permissions for the user group.

SETTING UP THE USER GROUP WITH SYSADMIN PERMISSIONS

If the SQL Server instance is solely for the purpose of ShipWeight and it may be considered whether the user group can have a "sysadmin" server role. In this case, select "Server Roles" page in the dialog and check the "sysadmin" box.



In this case you are done and can click "OK" button to create the user group. The user group is now added and ready for ShipWeight.

SETTING UP THE USER GROUP WITH MINIMUM PERMISSIONS

If it is not desired to give the user group Sysadmin permissions, the minimum permissions of **db_datawriter** and **db_datareader** given for the following databases:

- SWLogin
- sdb_Demo
- sdb_ShipDb
- SWSystem
- SW00_ProjectDB
- SW00_ProjectDB_Log
- SW04_ProjectDB
- SW04_ProjectDB_Log

See next pages on how to set this up

Select the "User Mapping" page and check the necessary permission for each of the database.

ELogin - New								
Select a page General Server Boles	Script 🔻 📑 Help							
User Mapping	Users mapped to this login:							
Statue	Map	Database	User	Default Schema	<u>^</u>			
		test						
		wdb_NGNNC1						
		wdb_NGNNC2						
		wdb_NGNNS1						
		wdb_NGNNS2						
		wdb_NGNNS3						
		wdb_SwbsSys						
		wdb_SwbsSys_ACA						
		wdb_WeightDB						
	Guest account enabled for: wdb_SwbsSys Database role membership for: wdb_SwbsSys							
Connection	db ac	cessadmin						
Server:	db_ba	ckupoperator						
RAA\RAA	🗸 db 🔽	tareader						
Connection:	db_da	Itawnter Iladmin						
	db_de	nydatareader						
View connection properties	db_de	nydatawriter						
	db_ov	vner						
Progress	ob_se	cuntyadmin						
Ready								
				ОК	Cancel			

If the minimum permission selected and a ShipWeight user is creating a new ShipWeight project database, by default only this user can access this database. To enable other ShipWeight users to access this database, permissions "db_datawriter" and "db_datareader" must be set for the user group in the "User Mapping" for this project as well as the log project (the log project is named <project>_log).

To make these permissions default for the user group for any new projects created even with minimum permission set, a few lines must be added to the files creating new ShipWeight projects.

The two files to be edited are "ShipWeightDB.sql" and "ShipWeightDB_Log.sql" and is found in the ShipWeight folder at the client machine. Open the files in Notepad or similar and at the end of these files to add these lines. If the user group name is RAA\ShipWeightUsers the lines would look like this:

EXEC sp_grantdbaccess 'RAA\ShipWeightUsers'

EXEC sp_addrolemember 'db_datareader', 'RAA\ShipWeightUsers'

EXEC sp_addrolemember 'db_datawriter', 'RAA\ShipWeightUsers'

GO

D SI	ipWeightDB.sql - Notepad		X
<u>F</u> ile	<u>E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp		
) ON GO	[PRIMARY]		^
CREA	<pre>TABLE [VARIABLES] ([sKey] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL , [sSubKey] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL , [sRegUser] [nvarchar] (50) COLLATE SQL_Latin1_General_CP1_CI_AS NOT NULL [svalue] [nvarchar] (255) COLLATE SQL_Latin1_General_CP1_CI_AS NULL , CONSTRAINT [PK_VARIABLES] PRIMARY KEY CLUSTERED ([sKey], [sSubKey], [sRegUser]</pre>	5	
) ON GO) ON [PRIMARY] [PRIMARY]		
CREA	TE TABLE [VERSION] ([fversion] [real] NOT NULL , CONSTRAINT [PK_VERSION] PRIMARY KEY CLUSTERED ([fversion]) ON [PRIMARY] [PRIMARY]		
GO EXEC EXEC EXEC GO	sp_grantdbaccess 'RAA\ShipWeightUsers' sp_addrolemember 'db_datareader', 'RAA\ShipWeightUsers' sp_addrolemember 'db_datawriter', 'RAA\ShipWeightUsers'		•
<		>	:

Figure 4: Showing the permission lines added to ShipWeightDB.sql

ENABLING TCP/IP PROTOCOLS FOR SQL EXPRESS 2005

SQL SERVER CONFIGURATION MANAGER

The SQL Server Configuration Manager is a graphical tool that is automatically installed with SQL Server 2005 Express to enable you to manage many aspects of your SQL Server installation, such as services, network configuration, and more.

Start the SQL Server Configuration Manager from the Configuration Tools group of the SQL Server Express group and expand the "SQL Server 2005 Network Configuration" and select "Protocols for SQLEXPRESS".

🕅 SQL Server Configuration Manager									
<u>File Action View H</u> elp									
SQL Server 2005 Services	Shared Memory Named Pipes TCP/IP	Enabled Disabled Disabled Disabled	1						
<									

The default protocols for SQL Server are:

Shared Memory - Secure way for a client to access a SQL Server on the same computer. Shared Memory is enabled by default and cannot be used when accessing SQL Server from across the network.

Named Pipes - Allows a client to connect to SQL Server by using any of a number of different protocols. The actual protocol used is dictated by the client application by indicating the path, or *pipe*, needed to access the server. Because of potential security risks, only **local Named Pipes** is enabled by default. If you want to use the **Named Pipes** protocol from a remote machine, you'll have to enable this in the **SQL Server Surface Area Configuration** manager

TCP/IP - Standard Ethernet protocol that enables a client application to access a specific SQL Server instance using its IP address. Because of potential security risks, **TCP/IP** is disabled by default.

VIA - Stands for Virtual Interface Architecture and is a network protocol that is used in high-speed networks. VIA is not available in SQL Server 2005 Express.

To enable or disable any of the protocols (except VIA), simply right-click the desired protocol name and select **Enable** or **Disable** as desired. If a protocol is enabled, a client application will be able to connect to SQL Server 2005 Express by using that protocol.

For further information on setting up users, database backup or other SQL questions, please do not hesitate to contact BAS engineering – <u>office@bas.no</u>