

## 4.4. Databases

**Database connection** allows importing the entire spectrum of [data types](#) that Streamline can take in order to plan your demand, forecast revenue, and optimize your inventory. You can activate additional axes in Streamline such as *Locations* and *Channels* by providing the corresponding data types. The first one allows you to plan your demand and inventory by location or site. The other one, to forecast and plan your future sales by channel or customer.

**Database connection** uses the ODBC or MySQL driver to import data into Streamline. This connector works with 32-bit/64-bit ODBC data sources if the 32-bit/64-bit version of Streamline is installed accordingly.

Watch a video tutorial (8:32)

Along with the most commonly used cases as:

- [demand planning](#),
- [revenue forecasting](#),
- [inventory planning](#),

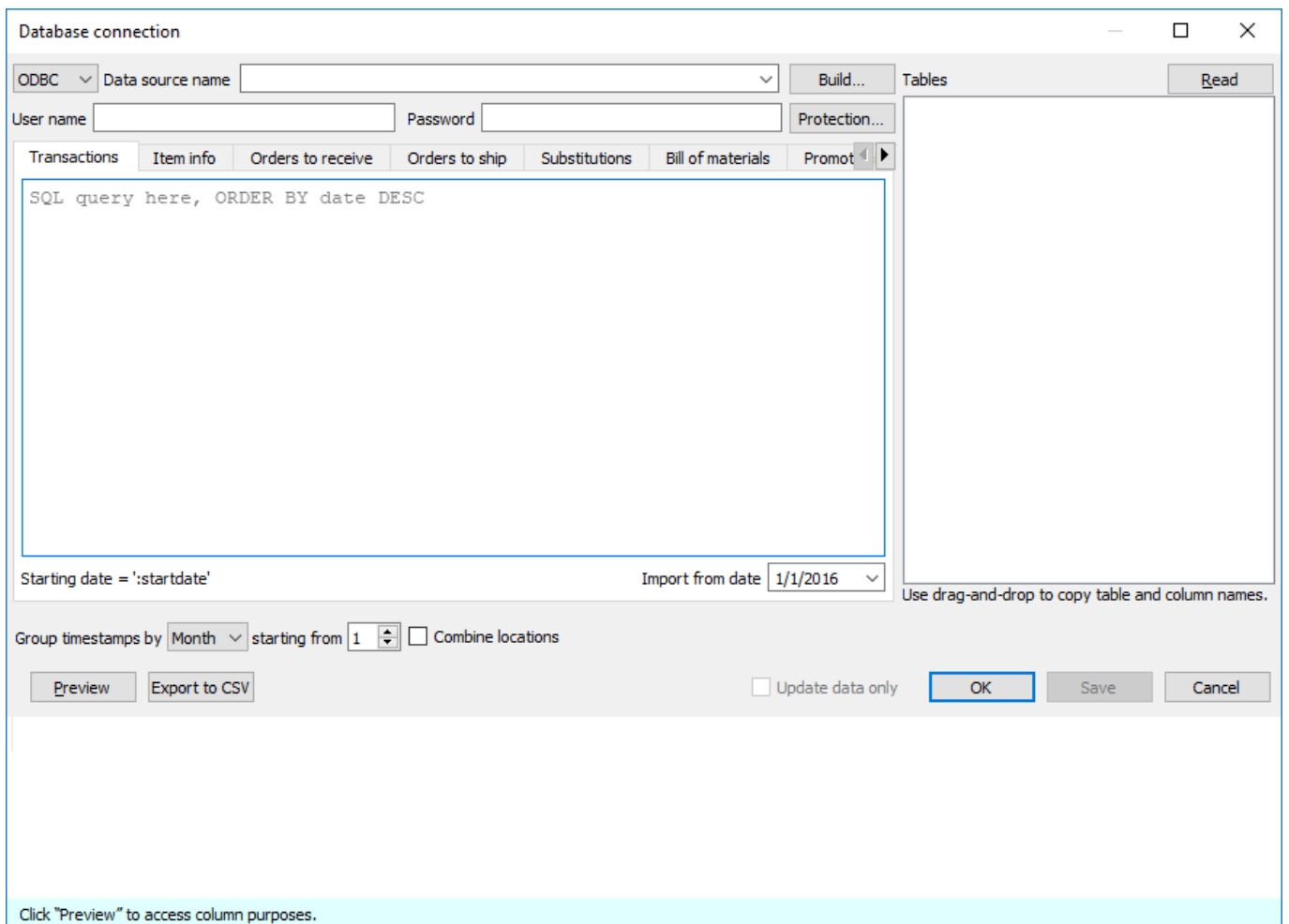
we will also explain what data types you need to provide and [how to import them](#) in the following special cases:

- [two-echelon planning](#),
- [material requirements planning](#),
- [planning products with a shelf life](#),
- [accounting for products promotions](#),
- [disassembled kit planning](#).

Besides importing capabilities, **Database connection** allows you to [export the results](#) and outcomes of Streamline's planning.

Below, we give an introduction to the **Database connection dialog** and discover the generic capabilities of this connector. You will learn how to establish a connection to a database and [read the content of its tables](#).

To open the dialog, go to the menu **File > New > Database connection**.



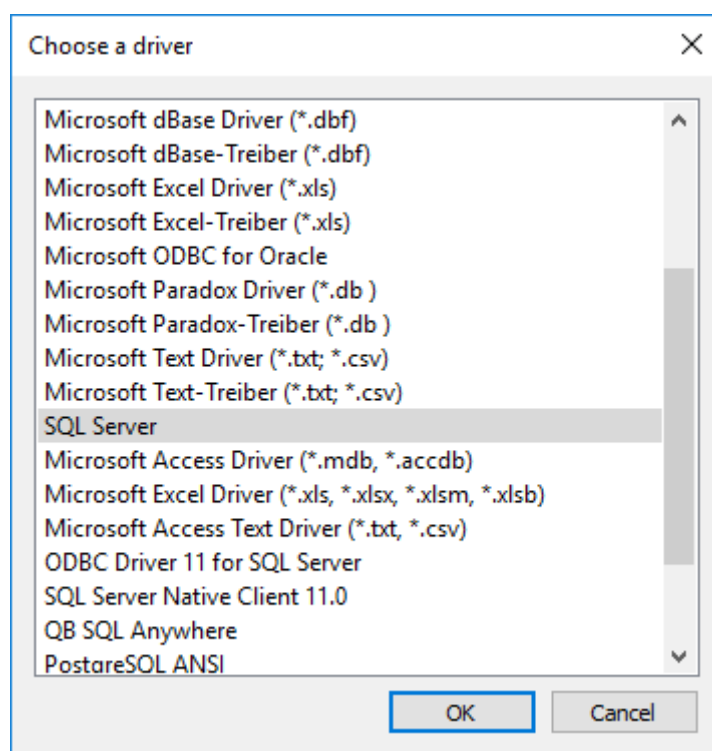
The dialog differs only in database connection options whether the ODBC or MySQL driver is used.

Below, we describe how to configure a connection to a database using the **ODBC** or **MySQL** option of the dialog.

## ODBC

There are three ways to connect to an ODBC data source in Streamline:

- Choose your connection configuration from the **Data source name** drop-down. In this case, your configuration should be created outside Streamline prior to selecting it in the dialog. Streamline automatically pulls out all available ODBC connection configurations from your system and shows them in the drop-down list of the **Data source name** control.
- Create a connection string to your database by clicking the **Build** button.



After the driver has been selected, Streamline opens its native configuration dialog where you can set up the database (or data file) and enter login credentials. Finally, Streamline automatically inserts the resulting connection string into the **Data source name** field.

If Streamline can't detect an interactive tool for building the connection string, it shows a **"This driver cannot build connection string interactively."** message. In this case, refer to the driver documentation and build the connection string manually.

- Enter the connection string into the **Data source name** field manually. The login information can be excluded from the string and entered in the **Username** and **Password** fields.

## MySQL

**Host** is the IP address, domain name, or LAN name of the MySQL server.

**Port** is the port listened to by the MySQL server.

**Database** is the name of the database you are connecting to.

Using the **MySQL** option is much faster than connecting to MySQL database using ODBC driver.

After the driver settings are set, enter the database account credentials into the **Username** and **Password** fields of the dialog.

**Note to MySQL 8.0+ users that use direct access (MySQL, not ODBC).**

You may experience "authentication plugin 'caching\_sha2\_password' cannot be loaded" error. This error happens to many of third-party MySQL administration tools, not just Streamline. There are two ways to fix it:

1. Switch to MySQL ODBC connector 8.0. It'll handle all those problems by itself.
2. Create another user with STANDARD authentication type, not SHA2 (CREATE USER 'username' IDENTIFIED WITH mysql\_native\_password BY 'password', then GRANT him the permissions you want).

## Reading the Database Tables

To read the tables of the database, click the **Read** button. The list of the tables will appear on the right side of the dialog.

To show the content of a table, double-click on the table name in the list. The content will appear in the table at the bottom of the dialog.

Database connection

ODBC Data source name Driver={SQL Server};Server=Andrey-PC;Database=NAVDEMO;

User name Password

Sales orders Item info In transition Substitutions Export min/max strategy Export periodic order

SQL query here, ORDER BY date DESC

Starting date = ':startdate' Import from date 1/1/2000

Group timestamps by Month starting from 1

Preview Update data only OK Save Cancel

	timestamp	No_	No_2	Description	Search Description	Description 2	Base Unit of Measu	Price Unit Conversi
1		00001111		Electric Guitar	ELECTRIC GUIT...		BOX	0 0
2		1000		Bicycle	BICYCLE		PCS	0 0
3		1001		Touring Bicycle	TOURING BICY...		PCS	0 0
4		1100		Front Wheel	FRONT WHEEL		PCS	0 0
5		1110		Rim	RIM		PCS	0 0
6		1120		Spokes	SPOKES		PCS	0 0
7		1150		Front Hub	FRONT HUB		PCS	0 0

## Troubleshooting

If you encounter an *Unknown ODBC error (occurred at SQLFetch)* or *[Microsoft] [ODBC SQL Server Driver] Unknown token received from SQL Server (occurred at SQLFetch)*, it is likely due to an outdated version of the installed driver.

It's important to note that there are three generations of Microsoft ODBC drivers for SQL Server. The first one, the "SQL Server" ODBC driver, is no longer recommended for new development and still ships as part of Windows Data Access Components. The second generation is the SQL Server Native Client, which includes an ODBC interface and shipped with SQL Server 2005 through 2012 but is also not recommended for new development. For the most recent server features, it is **recommended** to use the latest generation of the driver, the Microsoft ODBC Driver for SQL Server, updated regularly and was first released after SQL Server 2012. To upgrade to the newest version of the ODBC driver, please follow the link provided.

The newest version of the ODBC driver can be found [here](#)

Also, specify the ODBC driver in your connection string. Here is an example of the string:  
 Driver={ODBC Driver 18 for SQL Server};Server=server-name;TrustServerCertificate=yes;Database=database-name;

[Next: Data types](#)

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