



# ELO Sync

Database



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## Setup

The following settings must be changed in the ELO Sync configuration file:

1. Change Database in the database type to be used, e.g. Postgres.
2. Insert the connection string in the ConnectionStrings section.

### Supported databases

All the supported database providers and the .NET package used by ELO Sync to access the provider are listed in this table.

Database	Supported versions	Provider package
PostgreSQL	12.20 or higher	<a href="#">Npgsql.EntityFrameworkCore.PostgreSQL</a>
Microsoft SQL Server 2016 or higher, Azure SQL		<a href="#">Microsoft.EntityFrameworkCore.SqlServer</a>

## Table overview

This section contains a short description of the database tables currently used by ELO Sync.

All the tables used by ELO Sync have the prefix `elosync_`.

Table	Description
<code>elosync_approvaldetails</code>	Details for approvals
<code>elosync_approvals</code>	Actions that must be approved by users
<code>elosync_claimidentities</code>	Identities that are assigned synchronization jobs.
<code>elosync_claims</code>	Claims for each identity.
<code>elosync_data_mappings</code>	Data mappings between elements. The connected elements always have the same name, contents, and metadata.
<code>elosync_EFMigrationsHistory</code>	Contains the migration history for all ELO Sync tables.
<code>elosync_elosynctargets</code>	The configured synchronization targets in the ELO repositories, usually folders
<code>elosync_fields</code>	Contains data for fields that are synchronized.
<code>elosync_masks</code>	All metadata forms referenced by synchronization jobs only contain reference data. The actual configuration data is loaded from the repository.
<code>elosync_msal</code>	Data required for the <a href="#">MSAL</a> library.
<code>elosync_msalactivities</code>	User authentications via the MSAL library also contain the last sign-in date.
<code>elosync_onedrivesynctargets</code>	The configured synchronization targets in OneDrive, either drives or folders in drives.
<code>elosync_settings</code>	The data linked to the settings.
<code>elosync_sharepointsynctargets</code>	The configured synchronization targets in SharePoint Online, either sites, lists, or folders
<code>elosync_structure_mappings</code>	The structural mappings between elements. The connected elements are always moved to the same relative position in the synchronized structure.
<code>elosync_syncactivities</code>	The logged activities of listed synchronization jobs.
<code>elosync_syncactivitydetails</code>	Details for logs.
<code>elosync_synccollections</code>	The collections contained in the synchronized systems. Each system can contain several collections.
<code>elosync_synconconflictetails</code>	Details on the currently active synchronization conflicts.
<code>elosync_synconconflicts</code>	All the currently active conflicts when synchronizing items across systems. Each conflict must be resolved by a user.
<code>elosync_syncitem_fields</code>	Data for field groups.
<code>elosync_syncitems</code>	The elements that are contained in the synchronized collections. Each collection has multiple elements.

Table	Description
elosync_syncjobs	All synchronization jobs that are managed by ELO Sync.
elosync_syncjobstrigger	Relation table between synchronization jobs and triggers.
elosync_syncsystems	The systems referenced by synchronization jobs.
elosync_trigger	List of individual triggers that can trigger synchronization of synchronization jobs.

## ER Diagram

This diagram shows all database entities and their relationships to one another as well as the property values they contain.

