Tryton By Example

Explaining
Tryton installation & usage
for first time administrators & users
of the system

_

Usage: Basic Functionality

Github - https://github.com/clixwise/tryton-by-example

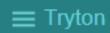
Version of presentation: 01.02 Dated 5-May-21

Version of Tryton: 5.8

Verified for execution on: Windows 10 & Powershell 7

Licence : <u>CC BY 4.0</u>
Author : Marc Rottiers

Table of Contents





Action

- > 🙎 Party
- > Product
- > **III** Company
- > 🏛 Financial
- > 🚒 Carrier
- > \$ Currency
- > § Banking
- > 📳 Inventory & Stock
- > 📜 Purchase
- > 📻 Sales
- > Commission
- > Ō Timesheet
- > **III** Marketing
- > (Attendance
- > Project
 - Dashboard
- > 🔦 Production
- > 🏩 Administration

TOC

Initial Configuration Wizard Performing Initial Configuration : language, user, module

Operations Explaining how to perform Operations

Modules Explaining the concept of Modules

Basic Configuration Basic Configuration

Country & Currency Installing Country & Currency

Party & Company & Employee Installing Party & Company & Employee

User Installing additional Users

Accounting Activating Financial modules

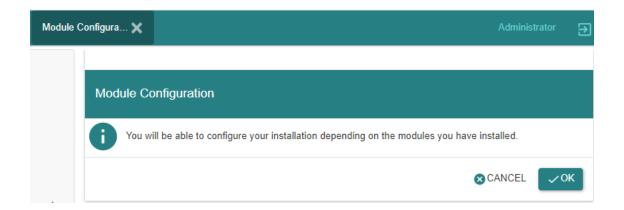
Logins Demonstrate user privileges

Initial Configuration Wizard

Configuration Wizard

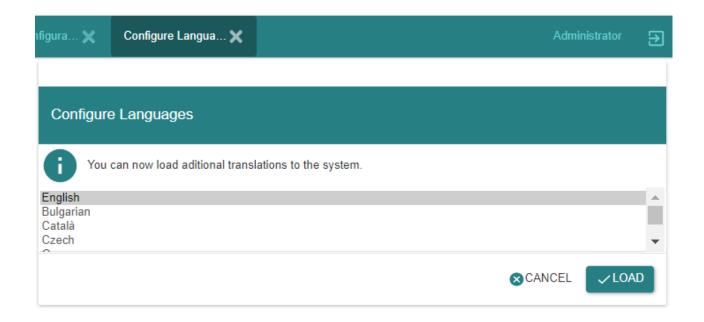
This wizard allows:

- To add languages,
- To define new users and
- To activate functional modules



Adding « Languages »

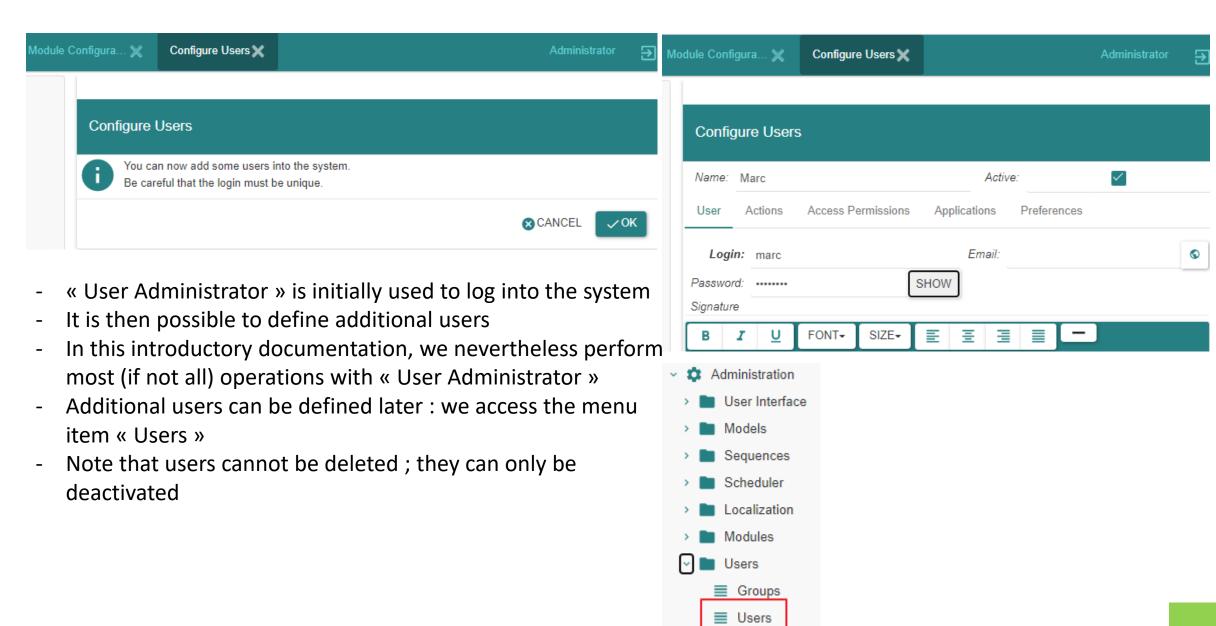
This wizard allows to define new languages



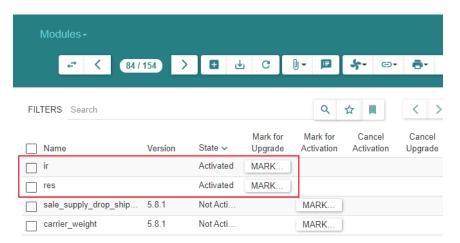
If languages should be added later on, we can access the menu item « Languages »



Defining « Users »



Activating « Modules »



Initially

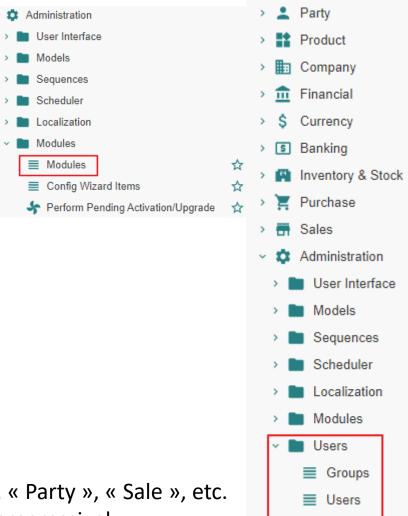
- Initially, all but two modules are activated : « ir » and « res »
- We do not activate additional modules at this stage

User Administrator

- Modules must be activated for this user to access functional subject areas s.a. « Party », « Sale », etc.
- As we progress in our understanding of the system, we will activate modules progressively.
- We do this by refering to the menu item « Modules ».

Other users

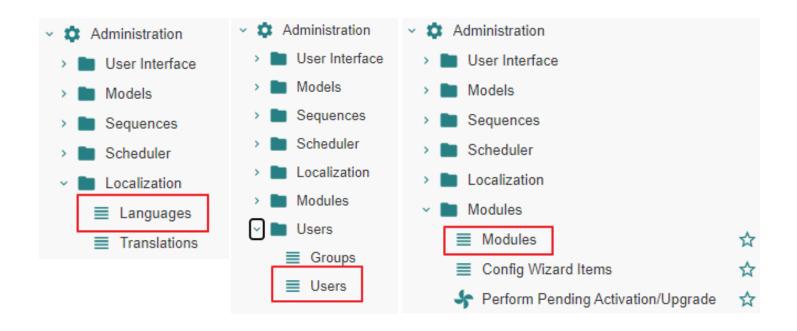
- At the end of this document, we will show how to activate access to subject areas by other users.
- We will do so thru Menu Tree Items « User Groups » or « User Roles ».



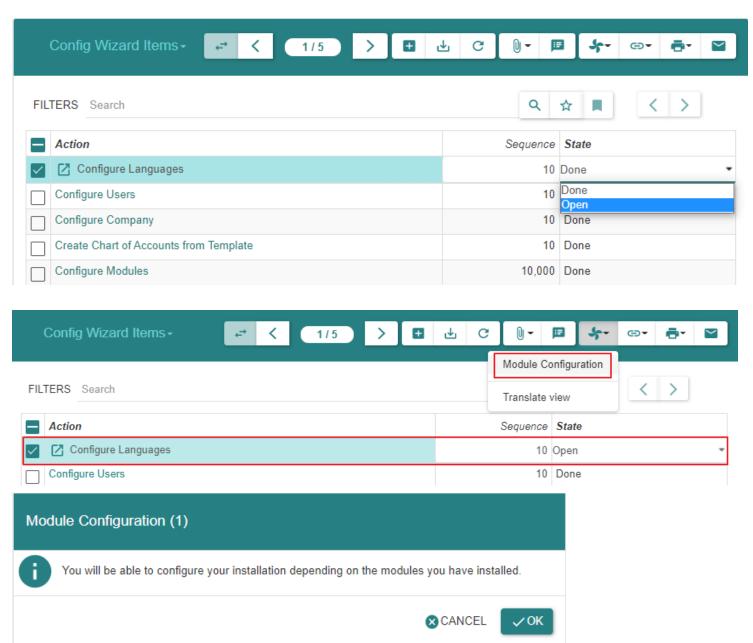
Roles

Re-executing wizards - Method 1

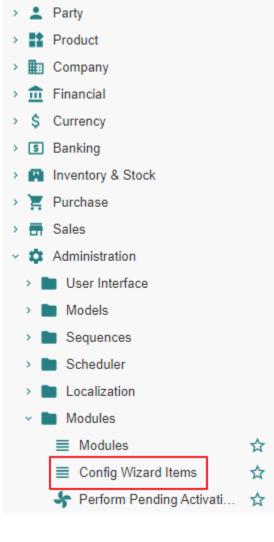
Wizard operations can be repeated later as well, using Menu items in the Tree on the left of the screen



Re-executing wizards - Method 2



We need to reopen the wizard in order to execute it again

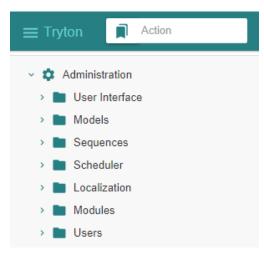


Operations

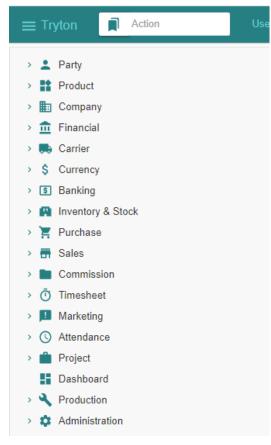
Motivation

- Before exploring the functional aspects of the system, we explain the different widgets that support navigation in the system and trigger operations on items and item lists.
- Please revisit this section whilst getting acquainted with the system subject areas.

Application - Menu Tree - Triggering operations



State of Menu Tree when
Initial modules activated

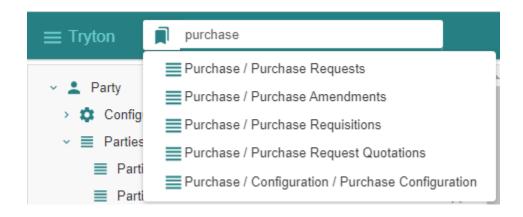


State of Menu Tree when
All modules activated

- The amplitude of the menu tree depends on which application modules have been activated (i.e. installed) for a given user. See next section.
- Application modules belong to functional subject areas that are reflected in the Menu Tree: « Party », « Product », etc.

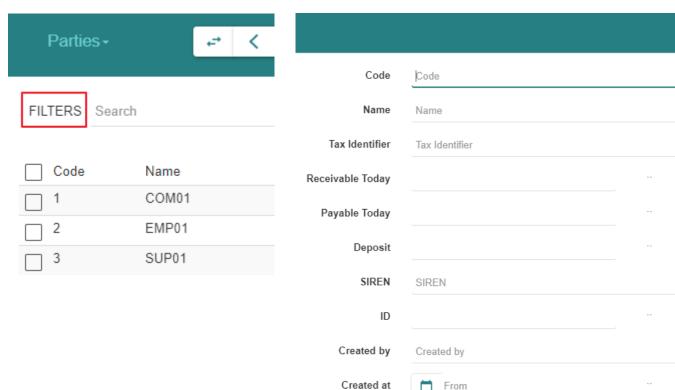
Application - Menu Tree - Search for menu item containing e.g. « Purchase »

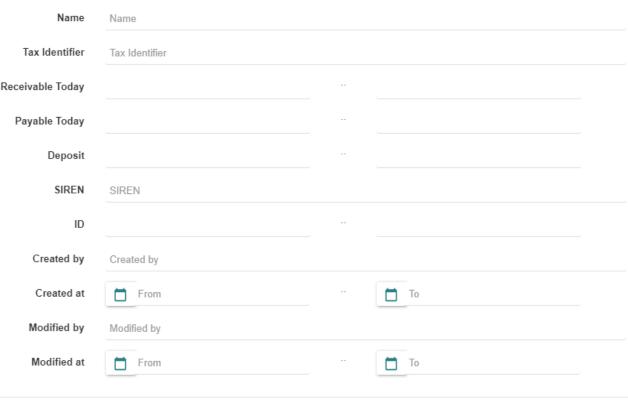
- A search mechanism exists for the tree of menu items
- Here we assume that the « Purchase » modules have been activated and search for some related functionality



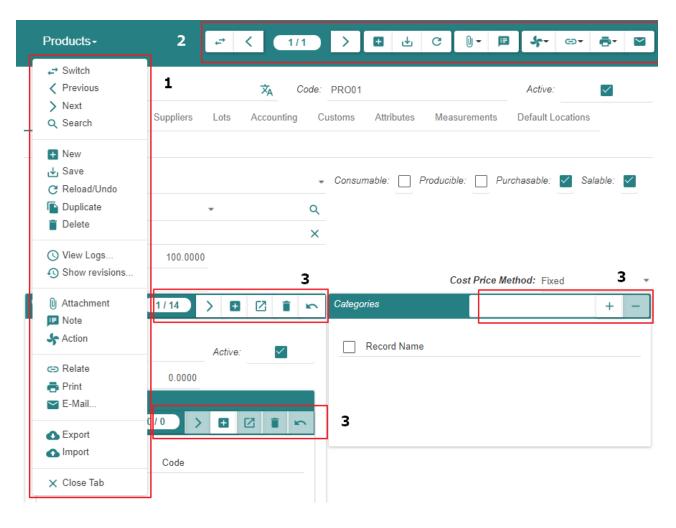
Entity - Filters

- The proposed filter depends on the entity properties
- Here an example for the entity « Party »





Entity - Menu Bars - An overview



- Vertical menu bar displays all possible operations
- 2. Horizontal menu bar displays some entity or list operations
- 3. Horizontal menu bars display intra-entity operations

Entity - Menu Bars - Vertical Menu Bar

Parties -		
→ Switch	- 1	 1 switch view from « item list » to « item »
Previous	- 2	- 2 « item » : previous in list
> Next	- 3	- 3 « item »: position in list
Q Search	- 4	- 4 « item » : next in list
+ New	- 5	- 5 « item » : start adding
J Save	- 6	- 6 « item » : save
C Reload/Undo	- 7 - 8	- 7 « item list » or « item » : reload / undo / refresh
Duplicate	. 9	- 8 « item » : duplicate
Delete	3	- 9 « item » : delete
○ View Logs	- 10	- 10 « item list » : perform operation that is specific of this list
Show revisions	- 11	- 11
(I) Attachment	- 12	- 12 « item » : attach one or more documents (e.g. of type docx, xlsx, etc.)
■ Note	- 13	- 13 « item » : attach a note
Action -	- 14	- 14 « item » : actions that are specific of the entity
	_	- 15
C Relate	- 15	
	· 16	- 16 « item » : print
E-Mail	- 17	
♠ Export	- 18	- 17
	- 19	- 18
× Close Tab		- 19

Entity - Menu Bars - Horizontal Menu Bar



- 1 switch view from « item list » to « item » (*)
- 2 « individual record » : previous in list
- 3 « individual record » : position in list
- 4 « individual record » : next in list
- 5 « individual record » : start adding
- 6 « individual record » : save
- 7 « individual record » and « record list » : reload / undo / refresh
- 8
- 9
- 10 « record list » : perform operation that is specific of this list
- 11
- 12 « individual record » : print
- 13

Entity - « Item Double-Click » vs « Menu Item Navigation »

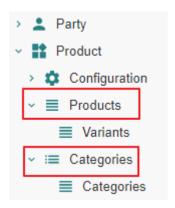
When displaying a list of items, double-click on one of them mostly generates the same result as « <- -> ».

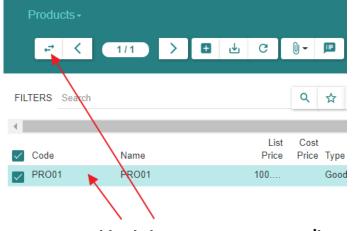
There are however exceptions whereby:

- « <- -> » displays either nothing or details about the item itself.
- « double-click » provides a « drill-down view » of objects belonging to the item

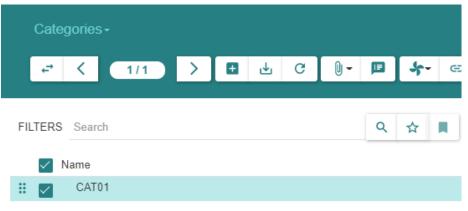
Examples

- « Chart of Accounts » <- -> : displays nothing
- « Chart of Accounts » double-click : displays the transactions for that account
- « Product Category » <- -> : displays details about the category
- « Product Category » double-click : displays the « Products » that belong to this « Category »





Double click or <--> : same result



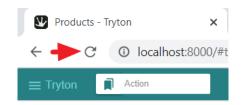
Double click: Products by Category (drill-down) <->: Properties of Category

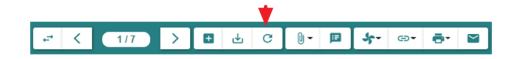
Application or Entity - Data Refresh Requirements

Sometimes it is necessary to refresh the screen using the « Browser Page Reload » button or the relevant menu item (see below).

This may happen e.g.

- In the case of « Switching » from « Item » view to « List » view. For instance, when state information in a « Sales Order », e.g. « Draft », has been changed in the « Item » view it might incorrectly persist in the « List » view though it has evolved e.g. to « Confirmed ».
- In the case of updating the « List of Product » sold by a « Supplier » then displaying the « Product » to show the « List of Suppliers »
- In the case of adding a « Product Variant » in the « List of Variants », it is necessary to refresh the « Product » itself to take the variant into account on the screen





Motivation

The « Application » is implemented by « Modules » that use « Database Tables » and « Files » optionally. Modules are not *explicitly* grouped into functional subject areas.

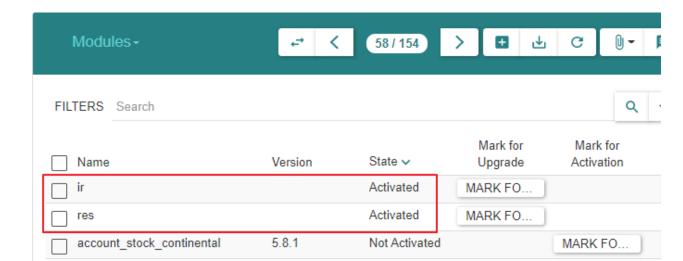
Initially, all but two modules (« ir » & « res ») are inactivated : see below.

The activation relies technically

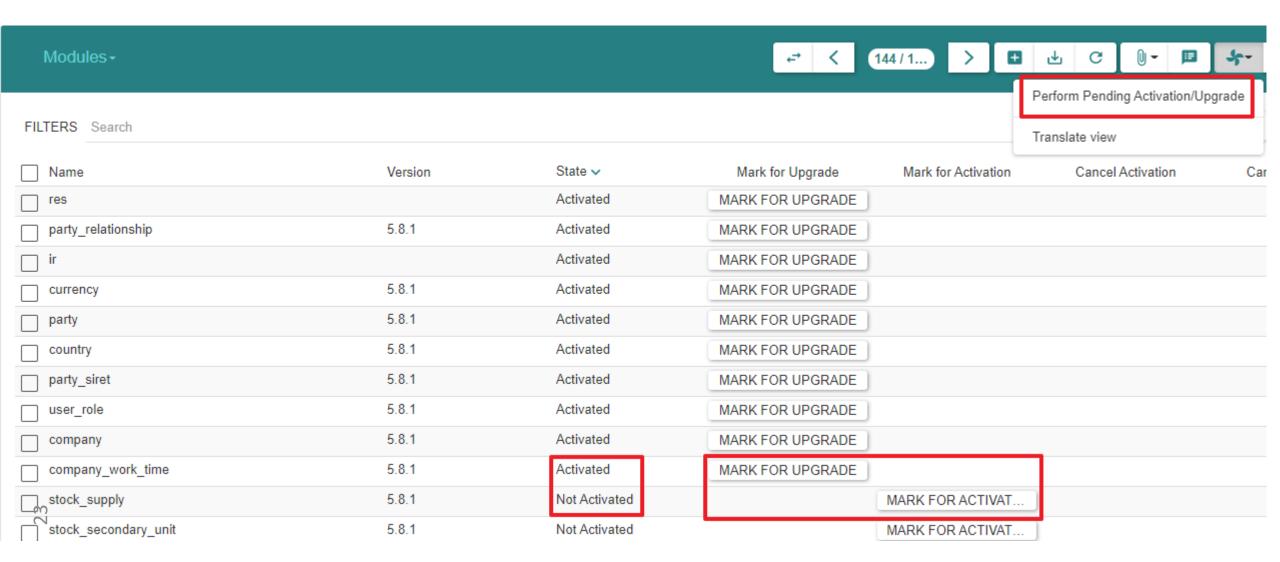
- Either on the usage of wizards and a mutual dependency mechanism.
- Or based on their name by grouping them based on their prefix.

When modules are activated,

- The database tables they use are created if required.
- The menu items are added in the Tree on the left of the screen.



- Tryton optimizes operations by requiring activation of application modules.
- We will activate modules as we progress instead of activating all modules at once



Growing list of menu items: initial & final list of menu items as modules are being installed

- > 🙎 Party Company \$ Currency Currencies Administration > User Interface > Models > Sequences > Scheduler > Localization Modules ■ Modules ■ Config Wizard Items Perform Pending Activation/Upgrade Users Countries
- > 🙎 Party
- > Product
- > **E** Company
- → 🏦 Financial
- > 瞒 Carrier
- > \$ Currency
- > S Banking
- > [Inventory & Stock
- > Purchase
- > 📻 Sales
- > Commission
- > Ō Timesheet
- > (Attendance
- > Project
- Dashboard
- > N Production
- Administration
- > User Interface
- > Models
- > Sequences
- > Scheduler
- > Localization



Modules

■ Config Wizard Items

Perform Pending Activation/Upgrade

Entity	Module activation	User handling
Product	product-*	Creating product & variants
Party associated with Purchase	purchase-*	Creating supplier
Supplier Invoice		
Supplier Shipment	stock-*	
Purchase	purchase-*	Creating purchase order
Supplier Shipment		Creating supplier shipment
Supplier Invoice		Creating supplier invoice

Functional intent of module can be derived from its name

Basic Configuration

Motivation

- Before examining the typical ERP transactions like « Sales », etc. we need to activate modules that support the different subject areas.
- This link refers to official documentation about a « basic configuation » : https://tryton-administration-manual.readthedocs.io/en/latest/basic_config.html

« Country » & « Currency »

- > 💄 Party
- > Product
- > **E** Company
- > m Financial
- > 🦱 Carrier
- > \$ Currency
- > **5** Banking
- > 📳 Inventory & Stock
- > Purchase
- > 📻 Sales
- > Commission
- > Ō Timesheet
- > <a> Marketing
- > (Attendance
- > Project
- Dashboard
- > N Production
- Administration
- > User Interface
- > Models
- > Sequences
- > Scheduler
- > Localization
- > Modules
- > **U**sers
 - Countries
 - Shortened URLs

- > 🔔 Party
 - Product
 - > **E** Company
 - → <u>m</u> Financial
 - > 🚍 Carrier
 - \$ Currency
 - Currencies

Motivation

The TRYTON database and application contain minimal database tables and application modules.

« Countries » and « Currencies » are extensively used. Hence, it is advised to :

- 1. Activate the corresponding application modules thereby also creating the required tables in the database.
- 2. Load the created tables with ISO normalised « Currency » and « Country » data

Finally, for each « Currency » of use in the « Company » operations, it is advised :

- To set the « Rate » property to 1.0 for a « Reference Currency »; f.i. « EUR rate » = 1.0
- To set the « Rate » property to a relative value for each « Relative Currency »; f.i. « USD rate » = 1.2
- When the « Company » operates in a single currency environment, the « 1.0 » multiplication factor is used
- When the « Company » operates in a multi-currency environment, each currency-related rate is used in addition as multiplication factor

Documentation

https://docs.tryton.org/projects/modules-country/en/latest/

Country	Alpha-2 code \$	Alpha-3 code \$	Numeric +
Afghanistan	AF	AFG	004
Albania	AL	ALB	008
Belgium	BE	BEL	056
Congo (the Democratic Republic of the)	CD	COD	180

Documentation

https://docs.tryton.org/projects/modules-currency/en/latest/

Country	Currency \$	Code \$	Number \$
AFGHANISTAN	Afghani	AFN	971
ALBANIA	Lek	ALL	008
CONGO (THE DEMOCRATIC REPUBLIC OF THE)	Congolese Franc	CDF	976
UNITED STATES OF AMERICA (THE)	US Dollar	USD	840
UNITED STATES OF AMERICA (THE)	US Dollar (Next day)	USN	997

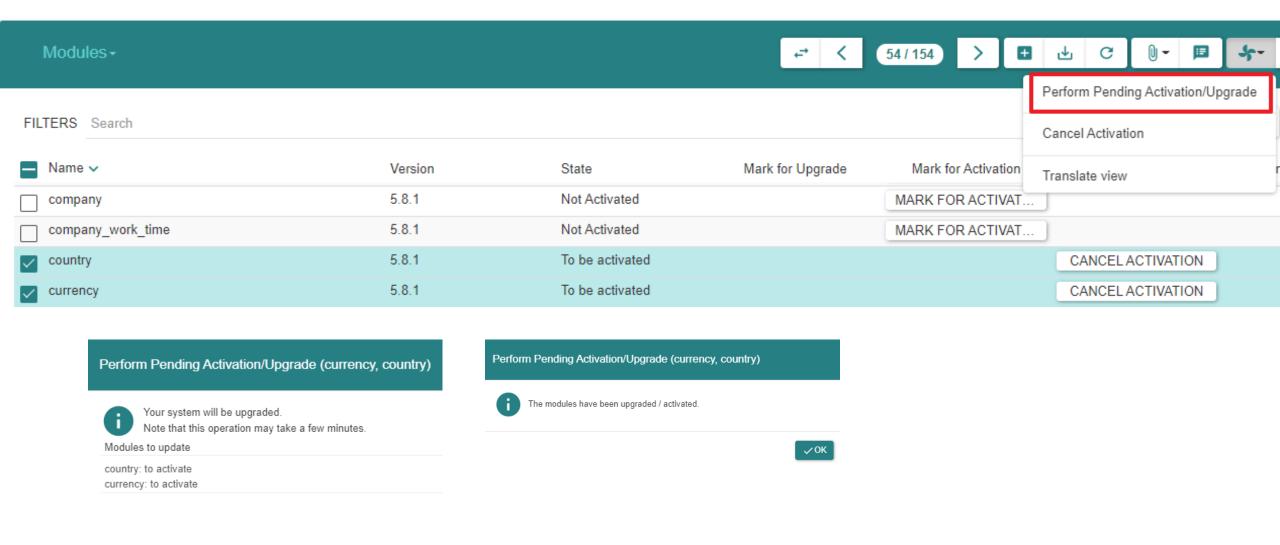
Application - Activating the Modules

Perform Pending Activation/Upgrade

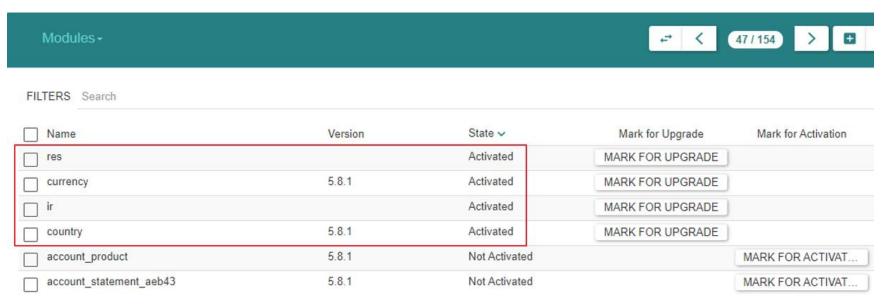
> Users

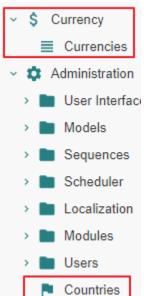
Countries

Mark « Country » & « Currency » For Activation then Execute



State « Post »



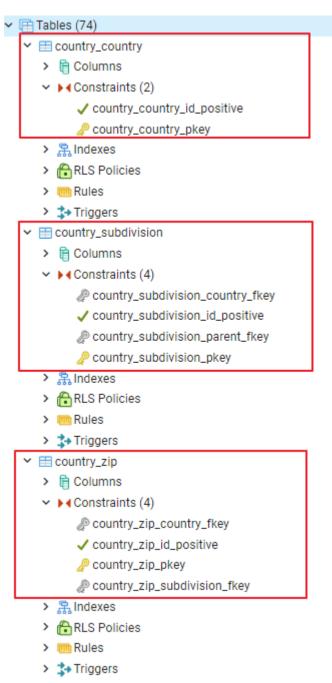


Note:

- Use TRYTON « Reload » operation to refresh and display
- « Countries » & « Currencies » appear in the Tree Menus
- When clicking on « Countries or « Currencies », the data panel remains empty: we still need to load the database tables

State « Post »

- There are 3 additional « country » tables
- There are 2 additional « currency » tables
- All tables are still empty
- ▼ (74)
 - > == country_country
 - > == country_subdivision
 - > == country_zip
 - > <u> currency_currency</u>
 - == currency_currency_rate



```
Imagers

    mcurrency_currency

   > 🗎 Columns

✓ ▶ Constraints (2)

✓ currency_currency_id_positive

@ currency_currency_pkey
   > Æ Indexes
   > RLS Policies
   > mRules
   > Triggers
 \equiv \equiv \text{currency_rate}
   > 🗎 Columns

✓ ▶ Constraints (4)

√ currency_currency_rate_check_currency_rate

        @ currency_currency_rate_currency_fkey
        currency_currency_rate_date_currency_uniq

@ currency_currency_rate_pkey

   > 🖳 Indovac
```

Database – Loading the Tables

Documentation

- [https://discuss.tryton.org/t/data-base-importing-countries-or-currencies/3811/7]
- Special credits to David Harper

« Currency » - Load data

docker exec --interactive --tty tryton /entrypoint.sh python3 -m trytond.modules.currency.scripts.import_currencies -d tryton

```
PS C:\tryt.01\tuto.01> docker exec --interactive --tty tryton /entrypoint.sh python3 -m trytond.modules.currency.scripts.import currencies -d tryton
usr/lib/python3/dist-packages/werkzeug/routing.py:1431: DeprecationWarning: invalid escape sequence \s/
/usr/lib/python3/dist-packages/passlib/context.py:231: DeprecationWarning: invalid escape sequence \;
 elif any(c in source for c in "\n\r\t") or not source.strip(" \t./\;:"):
usr/lib/python3/dist-packages/passlib/context.py:2240: DeprecationWarning: invalid escape sequence \*
usr/lib/python3/dist-packages/passlib/context.py:2323: DeprecationWarning: invalid escape sequence \*
usr/lib/python3/dist-packages/passlib/context.py:2406: DeprecationWarning: invalid escape sequence \*
/usr/lib/python3/dist-packages/ldap3/utils/ciDict.py:30: DeprecationWarning: Using or importing the ABCs from 'collections' instead of from 'collections.abc' is deprecated, and
in 3.8 it will stop working
 class CaseInsensitiveDict(collections.MutableMapping):
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:130: DeprecationWarning: invalid escape sequence \*
usr/lib/python3/dist-packages/pyasn1/type/constraint.py:175: DeprecationWarning: invalid escape sequence \*
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:334: DeprecationWarning: invalid escape sequence \*
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:494: DeprecationWarning: invalid escape sequence \*
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:538: DeprecationWarning: invalid escape sequence \*
/usr/lib/python3/dist-packages/pyasn1/type/namedval.py:54: DeprecationWarning: invalid escape sequence \*
/usr/lib/python3.7/importlib/ bootstrap.py:219: ImportWarning: can't resolve package from __spec__ or __package _, falling back on __name__ and __path__
 return f(*args, **kwds)
usr/lib/python3/dist-packages/zeep/xsd/visitor.py:428: DeprecationWarning: invalid escape sequence \[
 match = re.match('([^{[]}+)', array type)
usr/lib/python3/dist-packages/PyPDF2/generic.py:357: DeprecationWarning: invalid escape sequence \c/
 tok b_("\c")
Update currencies
PS C:\tryt.01\tuto.01> _
```

« Currency » - Load data

- > 🗎 Columns
- > > Constraints
- > RIndexes
- > RLS Policies
- > mRules
- > 🛟 Triggers

Data Output Explain Messages Notifications

4	id [PK] integer	active boolean	code character varying (3)	create_date timestamp without time zone	create_uid integer	digits integer	name character varying	numeric_code character varying (3)	rounding numeric	symbol character varying (10)
1	1	true	AED	2021-03-07 16:47:11.140739	1	2	UAE Dirham	784	0.01	[.5]
2	2	true	AFN	2021-03-07 16:47:11.140739	1	2	Afghani	971	0.01	Afs
3	3	true	ALL	2021-03-07 16:47:11.140739	1	2	Lek	008	0.01	L
4	4	true	AMD	2021-03-07 16:47:11.140739	1	2	Armenian Dram	051	0.01	AMD
5	5	true	ANG	2021-03-07 16:47:11.140739	1	2	Netherlands Antillean	532	0.01	NAf
6	6	true	AOA	2021-03-07 16:47:11.140739	1	2	Kwanza	973	0.01	Kz
7	7	true	ARS	2021-03-07 16:47:11.140739	1	2	Argentine Peso	032	0.01	\$
8	8	true	AUD	2021-03-07 16:47:11.140739	1	2	Australian Dollar	036	0.01	\$
9	9	true	AWG	2021-03-07 16:47:11.140739	1	2	Aruban Florin	533	0.01	f
10	10	true	AZN	2021-03-07 16:47:11.140739	1	2	Azerbaijanian Manat	944	0.01	AZN
11	11	true	BAM	2021-03-07 16:47:11.140739	1	2	Convertible Mark	977	0.01	KM
12	12	true	BBD	2021-03-07 16:47:11.140739	1	2	Barbados Dollar	052	0.01	Bds\$

« Country » - Load data

docker exec --interactive --tty tryton /entrypoint.sh python3 -m trytond.modules.country.scripts.import_countries -d tryton

```
PS C:\tryt.01\tuto.01> docker exec --interactive --tty tryton /entrypoint.sh python3 -m trytond.modules.country.scripts.import countries -d tryton
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 match = re.match('([^\[]+)', array_type)
/usr/lib/python3/dist-packages/PyPDF2/generic.py:357: DeprecationWarning: invalid escape sequence \c
 tok = b ("\c")
Update countries
Update subdivisions
Update subdivisions parent
Update subdivisions en
PS C:\tryt.01\tuto.01>
```

« Country » - Load data

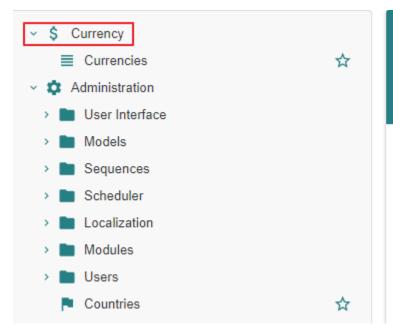
- ▼

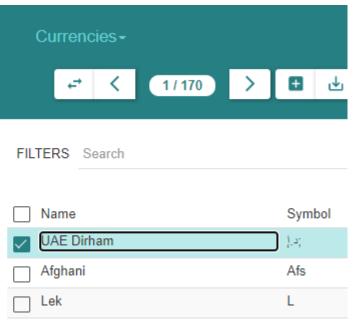
 ☐ country_country
 - > 🗎 Columns
 - > > Constraints
 - > 🤼 Indexes
 - > @RLS Policies
 - > mRules
 - > 🗱 Triggers

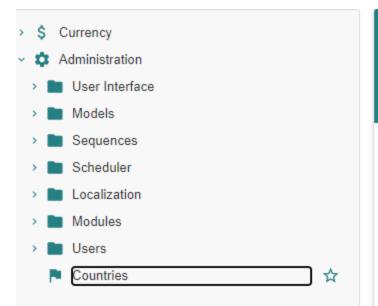
	ntrv	$\overline{}$			
> 🗎 Colum	Create	>			
> ► Constr	Refresh				
> 🤼 Indexe > 🦰 RLS Pc	Count Rows				
> Rules	Delete/Drop				
> 🟞 Trigger	Drop Cascade				
> == country_sı	Reset Statistics				
> == country_zi	Import/Export				
> == currency_c	Maintenance				
> == currency_c					
> ir_action	Scripts	>			
> ir_action-re	Truncate	>			
> == ir_action_a	Backup				
> III ir_action_a	Restore				
> III ir_action_a	View/Edit Data >		All Rows		
> III ir_action_k	Sparch Objects		Firet 100 Rows		
			00 Rows		
			70 ROWS		

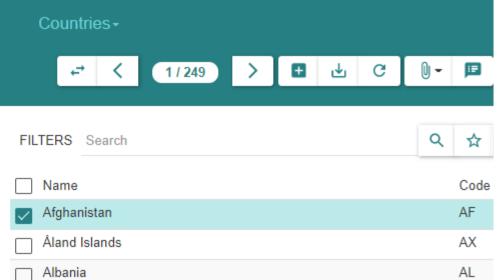
Data (Data Output Explain Messages Notifications								
4	id [PK] integer	active boolean	code character varying (2)	code3 character varying (3)	code_numeric character varying	create_date timestamp without time zone	create_uid integer	name character varying	l Rows
1	1	true	AW	ABW	533	2021-03-07 16:50:01.80037	1	Aruba	
2	2	true	AF	AFG	004	2021-03-07 16:50:01.80037	1	Afghanistan	
3	3	true	AO	AGO	024	2021-03-07 16:50:01.80037	1	Angola	
4	4	true	Al	AIA	660	2021-03-07 16:50:01.80037	1	Anguilla	
5	5	true	AX	ALA	248	2021-03-07 16:50:01.80037	1	Åland Islands	
6	6	true	AL	ALB	008	2021-03-07 16:50:01.80037	1	Albania	
7	7	true	AD	AND	020	2021-03-07 16:50:01.80037	1	Andorra	
8	8	true	AE	ARE	784	2021-03-07 16:50:01.80037	1	United Arab Emirates	
9	9	true	AR	ARG	032	2021-03-07 16:50:01.80037	1	Argentina	
10	10	true	AM	ARM	051	2021-03-07 16:50:01.80037	1	Armenia	
11	11	true	AS	ASM	016	2021-03-07 16:50:01.80037	1	American Samoa	
12	12	true	AQ	ATA	010	2021-03-07 16:50:01.80037	1	Antarctica	
13	13	true	TF	ATF	260	2021-03-07 16:50:01.80037	1	French Southern Territ	

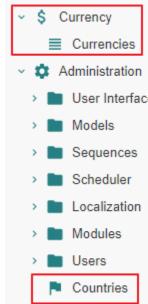
State « Post »







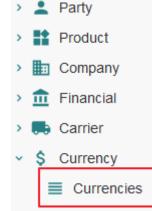




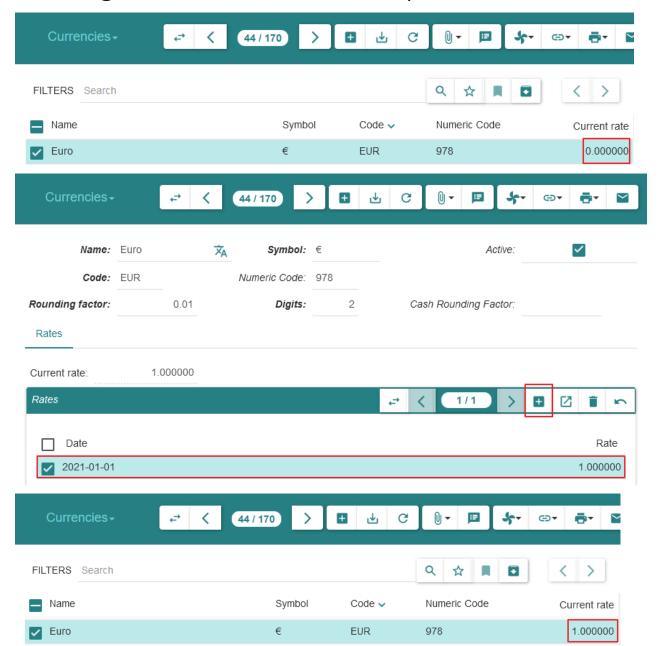
Currency Rates

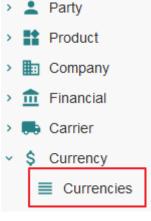
Motivation

- Multi-currency operations are supported
- In this is required, we need to define the rates for :
 - A « Reference Currency Rate »; that rate will be 1.0
 - One or more « Relative Currency Rates »; those rates will be relative to the reference rate.
- Exemple :
 - Our reference currency is EUR: its rate is 1.0
 - One or our relative currencies is USD: ist rate is 1.2 (2021)
- For each relative currency, we define as many dates as we want considering those dates are « Dates From » for the relative rate applicable from that moment onward.



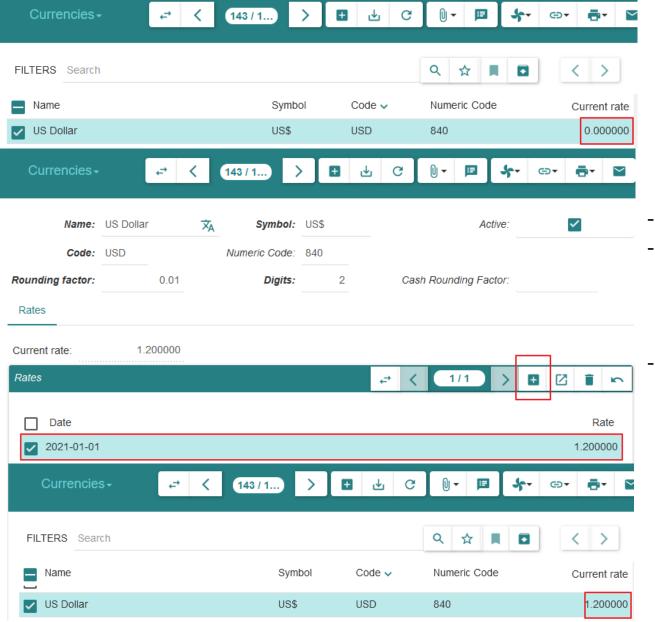
Setting a « Reference Currency Rate » as of « Date from »

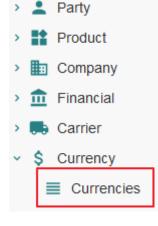




« EUR » is our « Reference Currency Rate ». Hence we set the rate at value 1.0

Setting « Relative Currency Rates » as of « Date from »





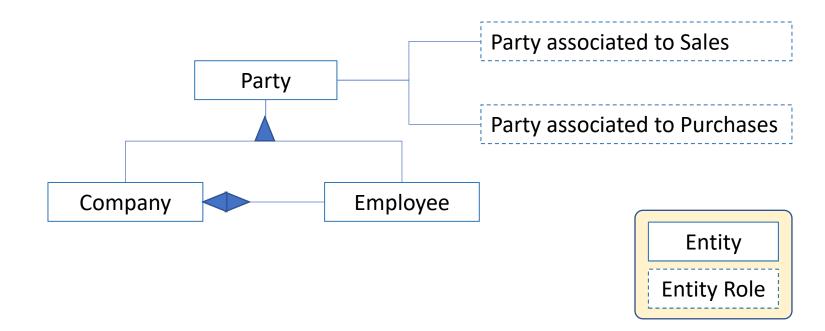
- « USD » is used in our « Company »
- So one of the « Relative Currency Rates » pertains to that « Currency ». Hence we set the rate at value 1.2 as of 2021-01-01 with respect to the « EUR »
- We can define additional « Relative Currency Rates »
 - For other currencies
 - For other « Date from » values

« Party » & « Company » & « Employee »

Motivation

We activate modules and create database content related to the following entities:

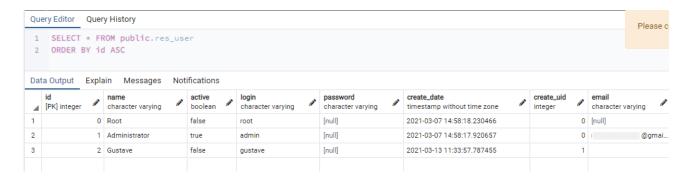
- 1. « Party »: an entity that represents some ERP-relevant actor
- 2. « Company » : a specialized « Party » entity
- 3. « Employee » : a specialized « Party » entity
- 4. « Parties associated to Sales » : a « Party » role (activated and installed later)
- 5. « Parties associated to Purchases » : a « Party » role (activated and installed later)



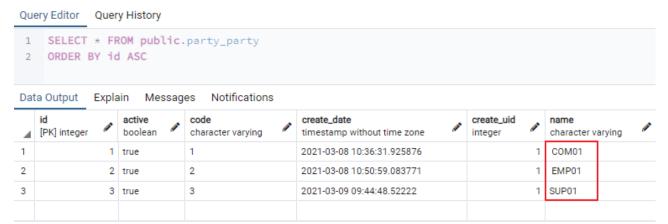
Motivation

« User » vs. « Party »

- A « User » is a user of the system with login and password.
- A « User » is not a « Party ».
- A « User » is not necessarily an « Employee » of the « Company ». F.i. he/she can be a consultant.
- The default user is « admin ».



The content of the « res_user » database table with « User » entities



The content of the « party_party » database table with « Company », « Employee » and « Supplier » (installed later) entities

« Party »

Motivation

A « Party » is an abstract entity that stands for the common properties of a speciliazed concrete entity such as « Company », « Employee », « Party associated to Purchase », etc.

We activate the modules that relate to « Party ». Subsequently, we define concrete parties :

The first approach for defining a specialized entity is:

- First define a « Party » with the idea that it will be referenced by a specialized entity.
- Subsequently define the specialized entity (e.g. a « Company ») with reference to its generic « Party » parent.

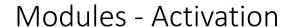
The second approach for defining a specialized entity is:

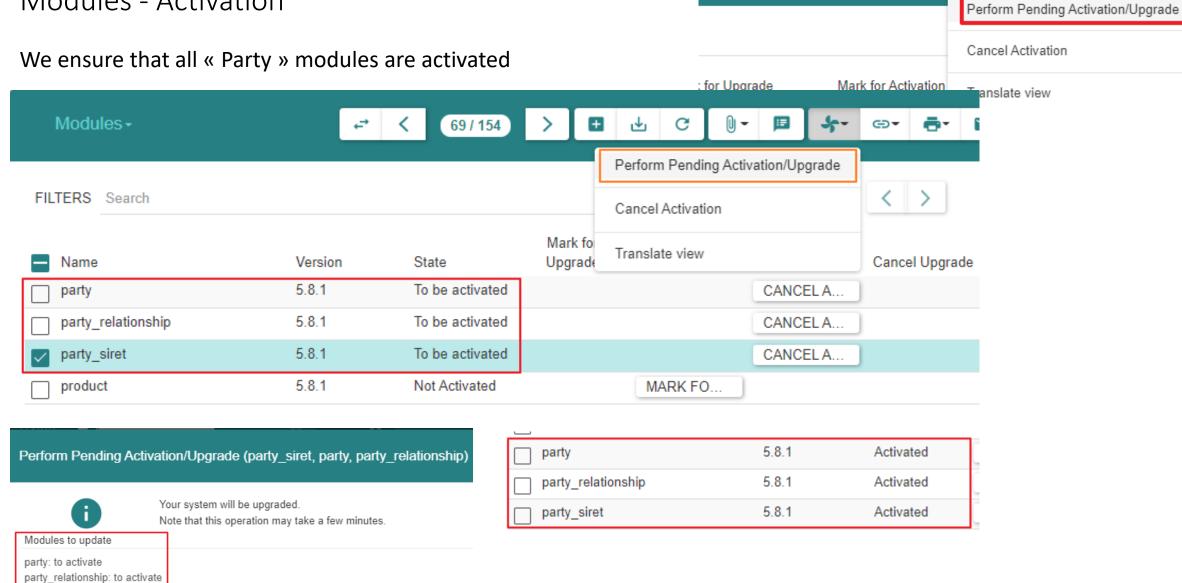
- Define the specialized entity like « Company »
- Doing so, the system lets you create the generic « Party » entity on the fly

Module Activation

Documentation

[https://docs.tryton.org/en/latest/party.html#index-party]

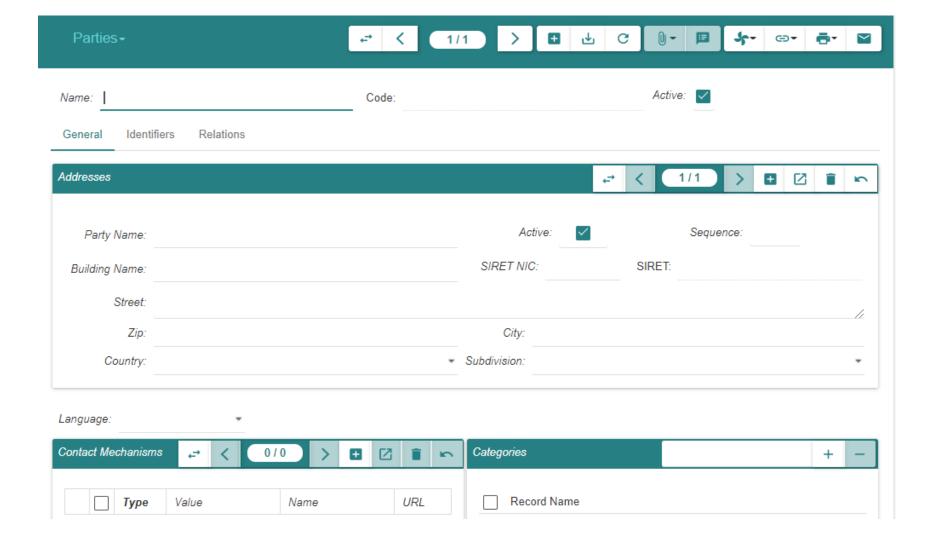




party_siret: to activate

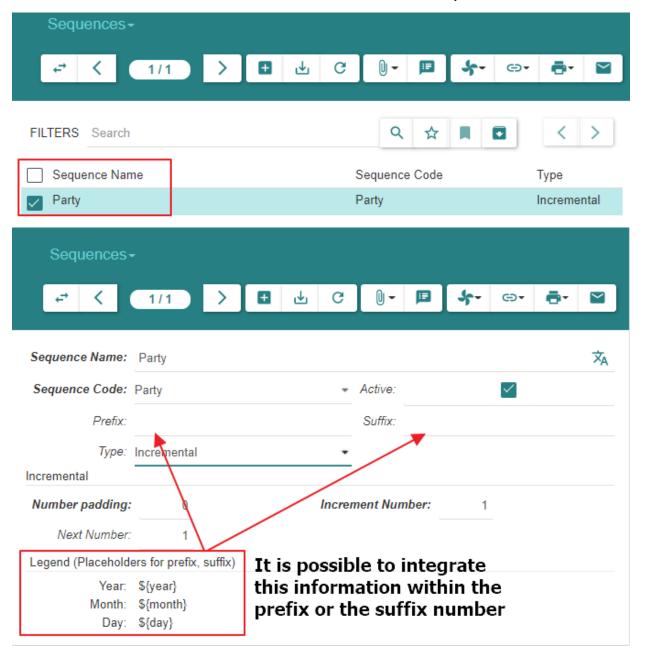
Status Post - Menu Tree Items « Party »

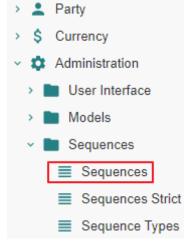
Menu Tree Items « Party »





Status Post - Menu Tree Item « Sequence »





Database tables created

- ∨ III Tables (93)
 - > mcompany_company
 - > == company_employee
 - > == party_address
 - > marty_address_format
 - party_address_subdivision_type
 - > == party_category
 - > marty_category_rel
 - > marty_configuration
 - > marty_configuration_party_lang
 - > == party_configuration_party_sequence
 - > marty_contact_mechanism
 - > marty_identifier
 - > marty_party
 - > marty_party_lang

Creation of Parties

« Party », « Company » & « Employee »

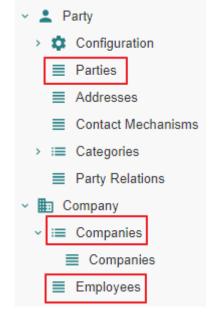
- A « Party » is an abstract entity.
- Its concrete subentities are of type « Company », « Employee », etc.
- We can define the corresponding abstract and concrete entities in two ways:

Method 1 :

- We define a « Party » « X » or « Y » by clicking on « Parties », and fill their properties conformant those inherited by the concrete entity
- Subsequently, we define :
- The « Company » « X » by referencing its corresponding « Party » « X »
- The « Employee » « Y » by referencing its corresponding « Party » « Y »

Method 2 :

- We define a « Party » « X » or « Y » by clicking on « Parties », and fill their properties
 conformant those inherited by the concrete entity
- We define the « Company » « X » by clicking on « Companies » and in doing so we create « Party » « X » in the process
- We define the « Employee » « Y » by clicking on «Employees » and in doing so we create
 « Party » « Y » in the process
- We will use Method 1 for defining a « Company » COM01
 - We will use Method 2 for defining an « Employee » EMP01

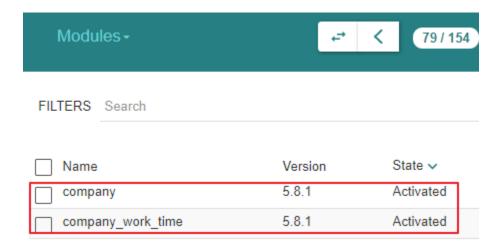


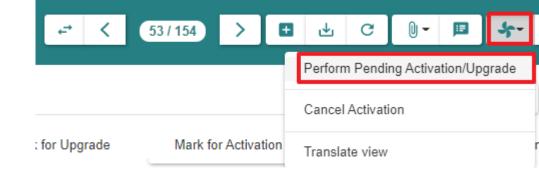
« Company »

Modules - Activation

We ensure that all « Company » modules are activated











Your system will be upgraded.

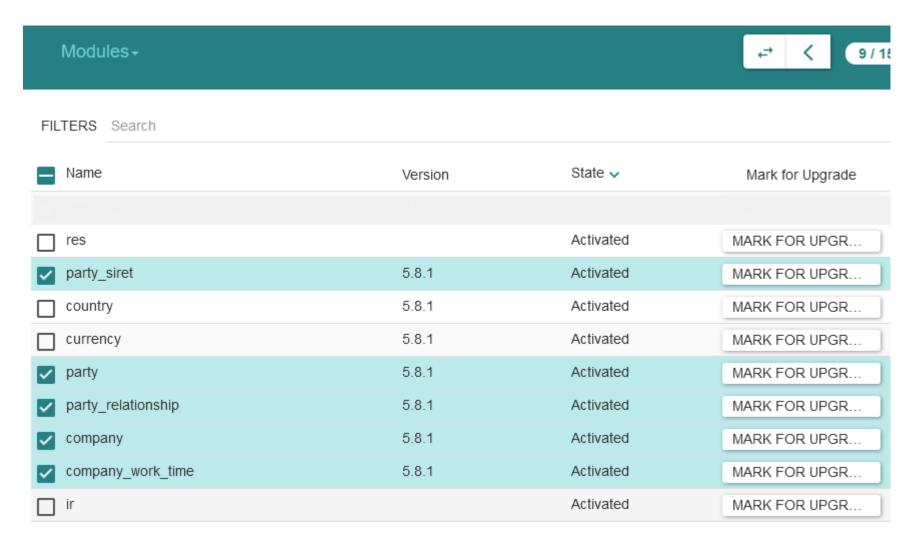
Note that this operation may take a few minutes

Modules to update

company: to activate

company_work_time: to activate

Modules - Activation - Summary State

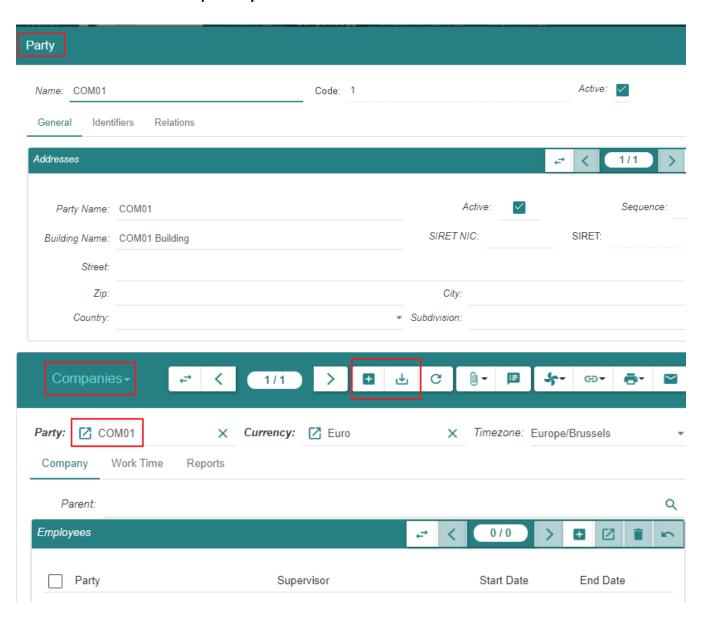


Modules - Activation

- Activating the « Company » modules creates the Menu Tree Items for « Company » as well as « Employee »
- When an indented Menu Tree Item construction exists, it means that e.g. « Companies » can be displayed as a tree of « Companies » as well as a list.
 - The top level « Company » menu will display the « Companies » in a tree manner.
 - The bottom level « Company » will display the « Companies » in a list manner.



Create « Company » COM01



Step 1Create the « Party » COM01

Step 2

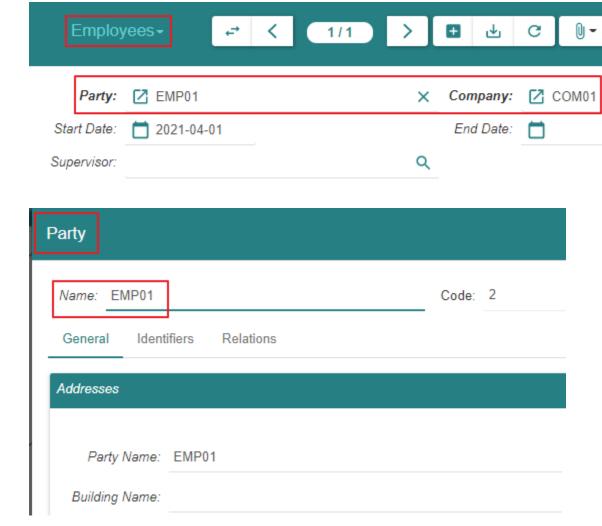
Create the concrete « Company » entity COM01 that references the abstract « Party » entity COM01

« Employee »

Modules - Activation

- By activating the « Company » modules, both the « Company » and « Employee » parties are made available
- There are no « Employee » modules to activate

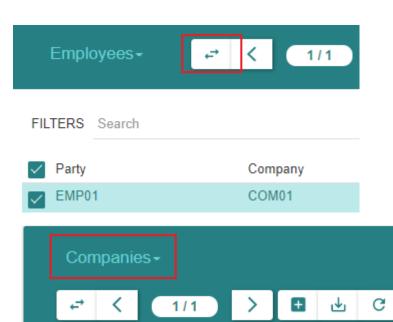
Creating « Employee » EMP01





- We create « Employee » EMP01
- In the process,
 - We create its corresponding « Party » EMP01
 - We reference the existing « Company » COM01

Creating « Employee » EMP01



X Currency: Euro

Supervisor

Reports

Party: COM01

Parent:

Party EMP01

Company

Employees

Work Time

- The « Employee » appears now
 - In the list of employees

⊕₹

Timezone: Europe/Brussels

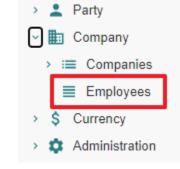
+

Start Date

2021-04-01

End Date

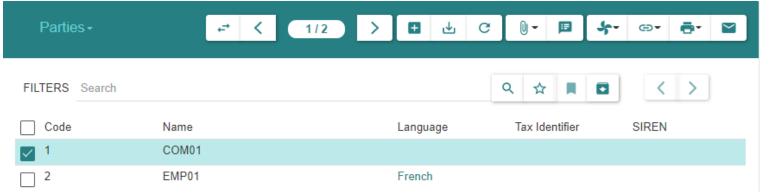
In the list of employees for « Company » COM01



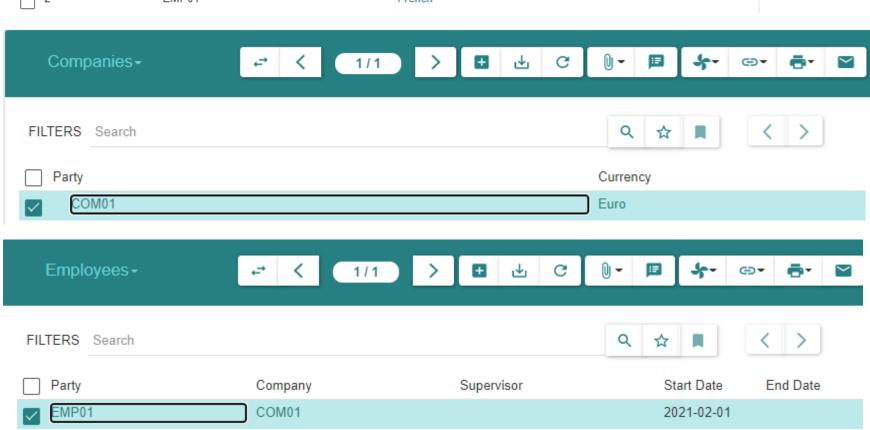


Final State

« Party », « Company », « Employee »



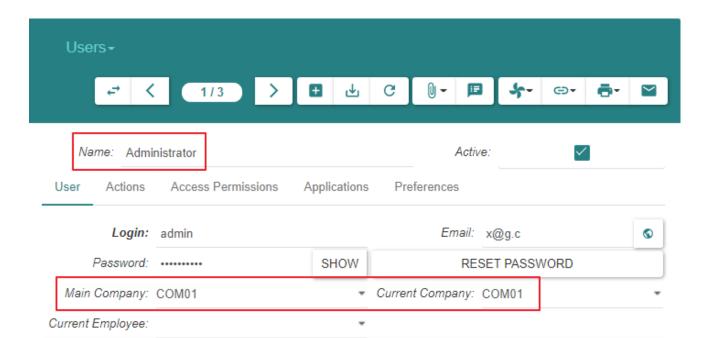
Note: this is one of these cases where you need to refresh the browser in order to appropriately display the parties that were just defined.



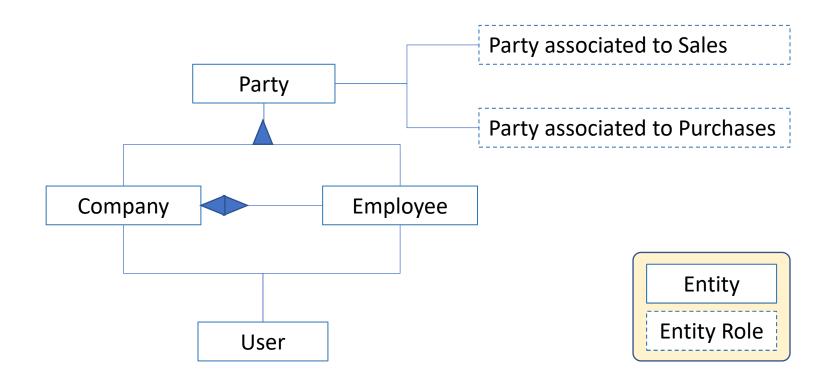
« User »

Definitions: « User » and « Employee »

- An « Employee » is a « Party », a « User » is not
- A « Company » aggregates « Employees », not « Users »
- A « User » references a « Current Company », a « Main Company » and an « Employee »
- A « User » is someone who logs into the system with his/her user id and password
- Thanks to the « User » « Company » link, the user has the permission to install and display relevant company records
- We will use this relationship to create a Chart of Accounts for « Company » COM01

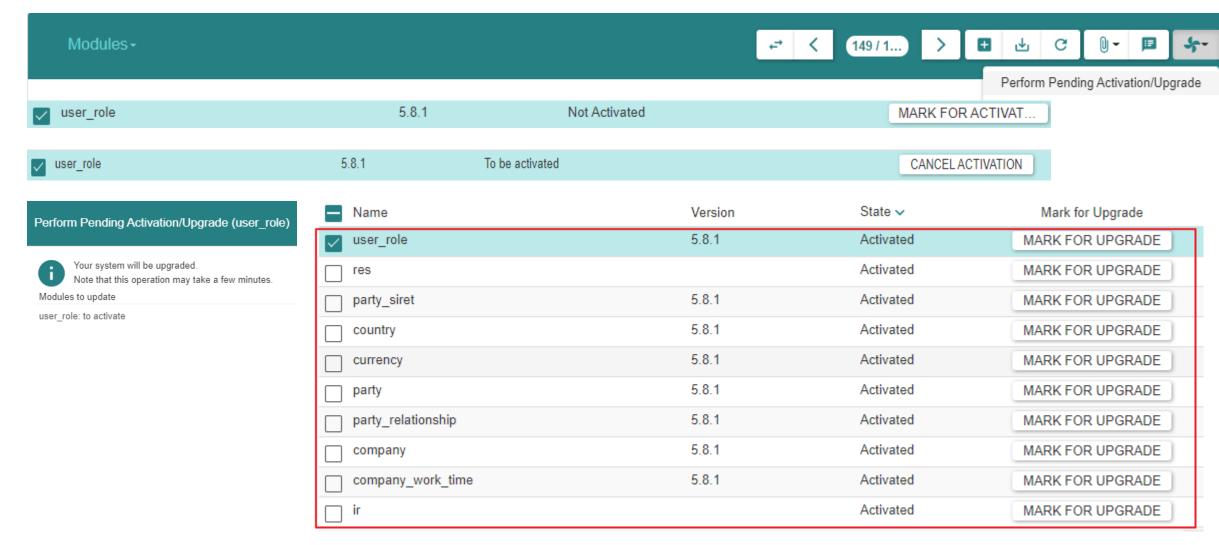


Definitions: « User » and « Employee »



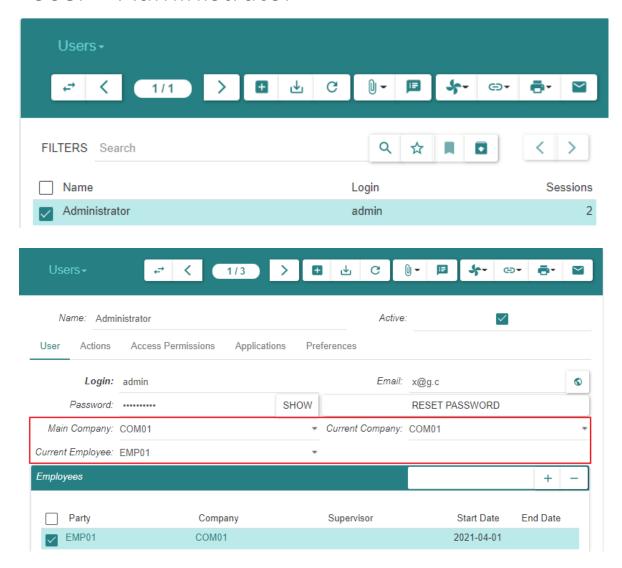
Application - Activating Modules

Activating module « User_role »

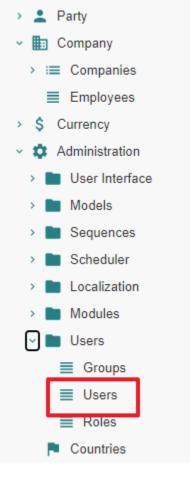


« User » Administrator

User « Administrator »



- « User Administrator» is installed by default
- We add a reference to « Company COM01 » and « Employee EMP01 »

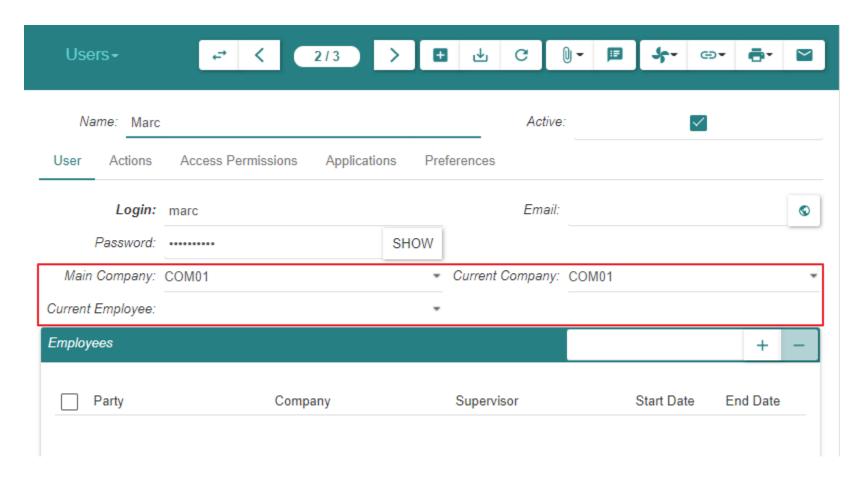


« User » Marc & Paula

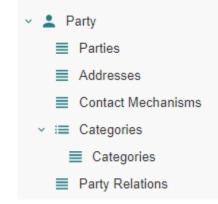
Motivation

- A « User » is a user of the system with a login and a password.
- The default user is « admin ». I use the password « Password ».
- We install additional users « Marc » & « Paula » without special privileges
- And briefly login then logout to see what is permitted
- From now on, all operations are performed in this basic introduction with « User » « Administrator »

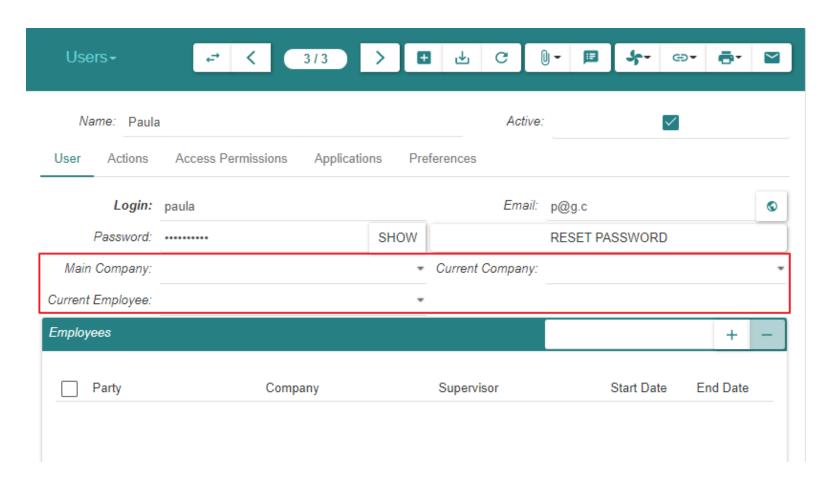
« User Administrator » installs « User Marc »



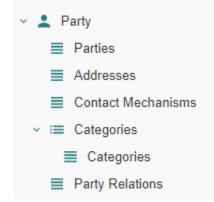
- User « Marc » is installed with reference to « Company COM01 »
- When loging in with « User Marc », we observe that the menu tree is reduced.



« User Administrator » installs « User Paula »

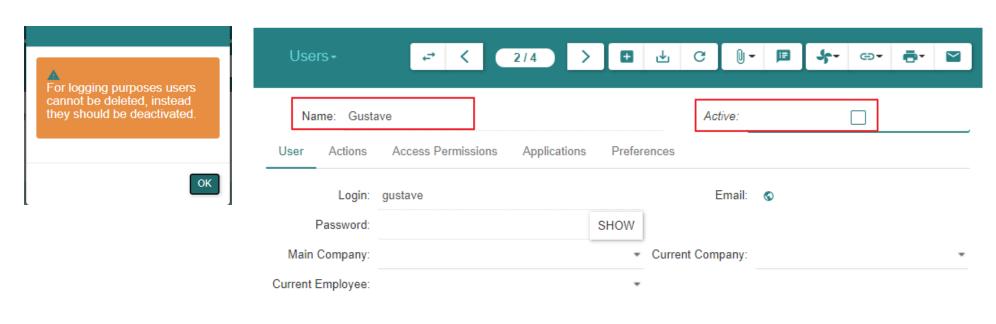


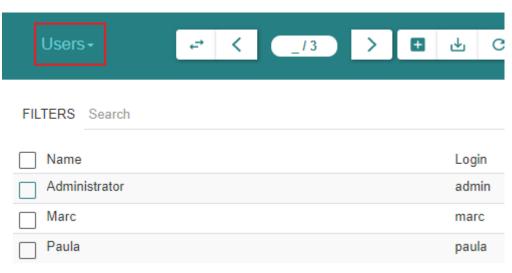
- User « Paula » is installed without references to « Company COM01 » and « Employee EMP01 »
- When loging in with « User Paula », we observe that the menu tree is reduced.



« User » Gustave

« User Administtrator » creates then deactivates « User Gustave »

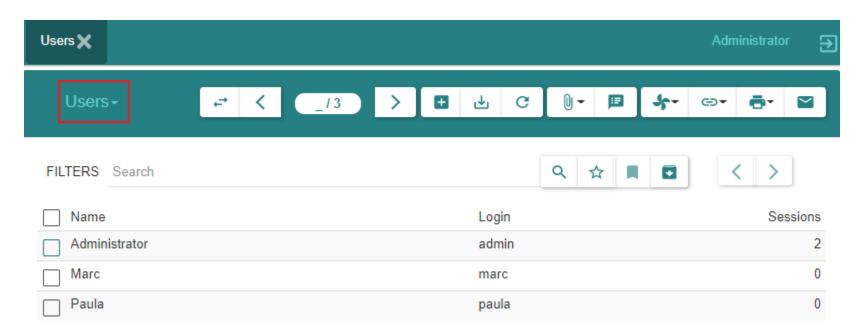




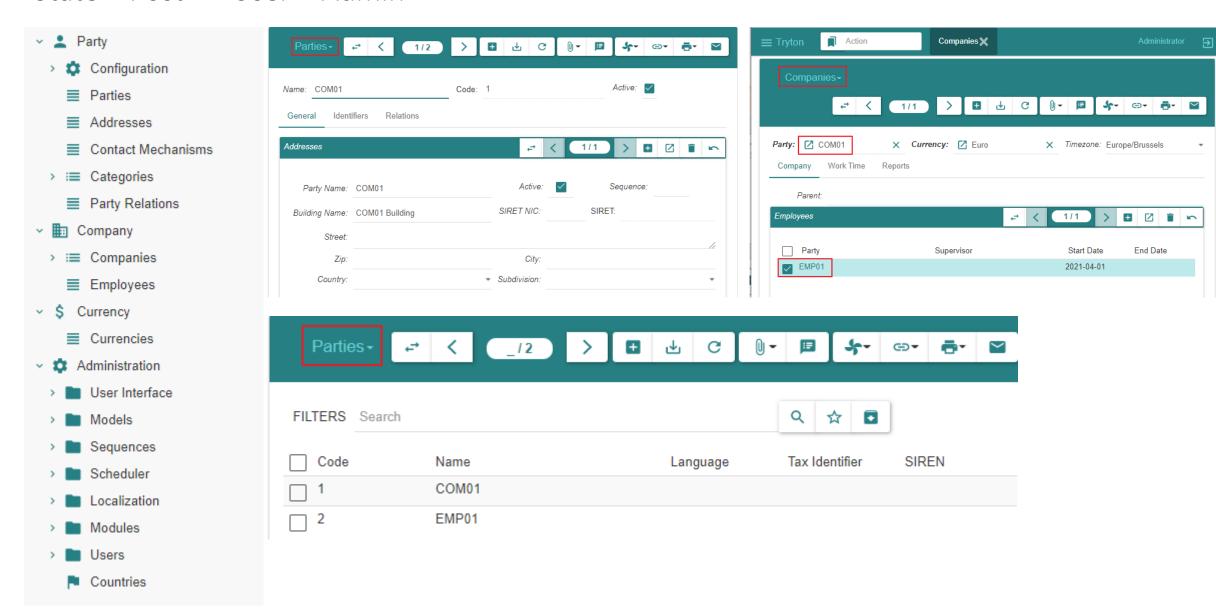
- User « Gustave » is installed then deactivated
- This demonstrates that a user cannot be deleted

State Post

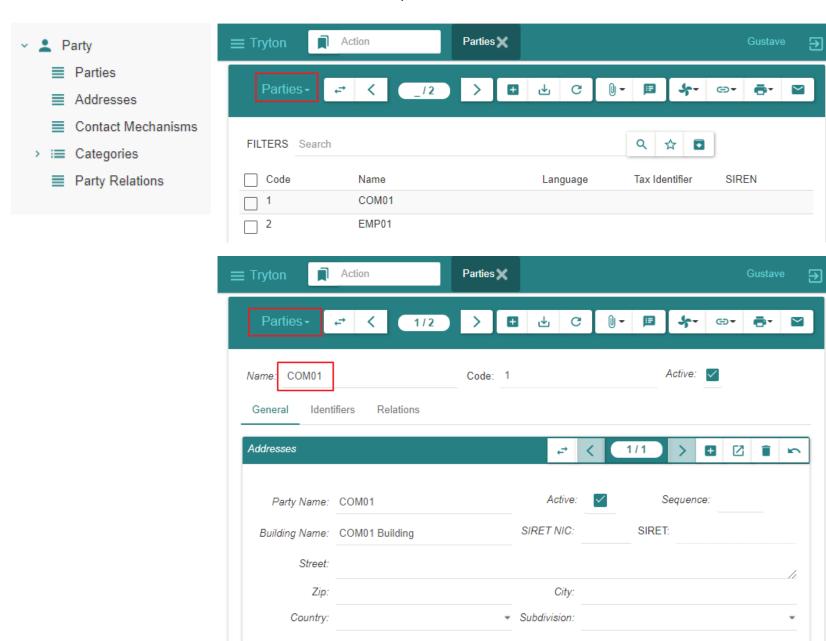
State « Post » - Users



State « Post » - User « Admin »



State « Post » - User « Paula », « Marc »



State « Post » - Database

▼ (95)

- > == company_company
- > == company_employee
- > == country_country
- > == country_subdivision
- > == country_zip
- > == cron_company_rel
- > == currency_currency
- > == currency_currency_rate
- > III ir_action
- > ir_action-res_group
- > III ir_action_act_window
- > ir_action_act_window_domain
- > III ir_action_act_window_view
- > ir_action_keyword
- > ir_action_report
- > ir_action_url
- > ir_action_wizard
- > ir_attachment
- > III ir_cache
- > ir_calendar_day
- > ir_calendar_month

- > ir_configuration
- > III ir_cron
- > III ir_email
- > ir_email_address
- > ir_email_template
- > \equiv ir_email_template-ir_action_report
- > ir_export
- > ir_export-res_group
- > ir_export-write-res_group
- > III ir_export_line
- > III ir_lang
- > ir_message
- > III ir_model
- > III ir_model_access
- > ir_model_button
- > ir_model_button-button_reset
- > ir_model_button-res_group
- > ir_model_button_click
- > ir_model_button_rule
- > ir_model_data
- > # ir_model_field

- > III ir_model_field_access
- > III ir_module
- > mir_module_config_wizard_item
- > ir_module_dependency
- > III ir_note
- > mir_note_read
- > III ir_queue
- > III ir_rule
- > III ir_rule_group
- > ir_rule_group-res_group
- > III ir_sequence
- > ir_sequence_strict
- > III ir_sequence_type
- > ir_sequence_type-res_group
- ir_session
- > ir_session_wizard
- > III ir_translation
- > III ir_trigger
- > ir_trigger__history
- > III ir_trigger_log

- > III ir_ui_icon
- > III ir_ui_menu
- > ir_ui_menu-res_group
- > III ir_ui_menu_favorite
- > III ir_ui_view
- > ir_ui_view_search
- > III ir_ui_view_tree_state
- > ir_ui_view_tree_width
- > marty_address
- > maty_address_format
- > marty_address_subdivision_type
- > marty_category
- > marty_category_rel
- > marty_configuration
- > marty_configuration_party_lang
- > marty_configuration_party_sequence
- > == party_contact_mechanism
- > marty_identifier
- > marty_party
- > marty_party_lang
- > marty_relation
- > marty_relation_type
- > mres_group

- > mres_role
- > == res_role-res_group
- > mres_user
- > mes_user-company_employee
- > mres_user-ir_action
- > mes_user-res_group
- > mres_user_application
- > == res_user_login_attempt
- > == res_user_role
- > mes_user_warning

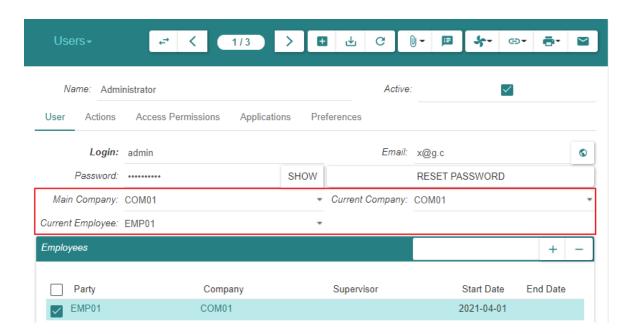
« Financials »

« Chart of Accounts » & « Fiscal Year and Period » & « Journal »

[https://tryton-administration-manual.readthedocs.io/en/latest/basic config.html#installing-a-chart-of-accounts] [https://tryton-administration-manual.readthedocs.io/en/latest/accounts.html]

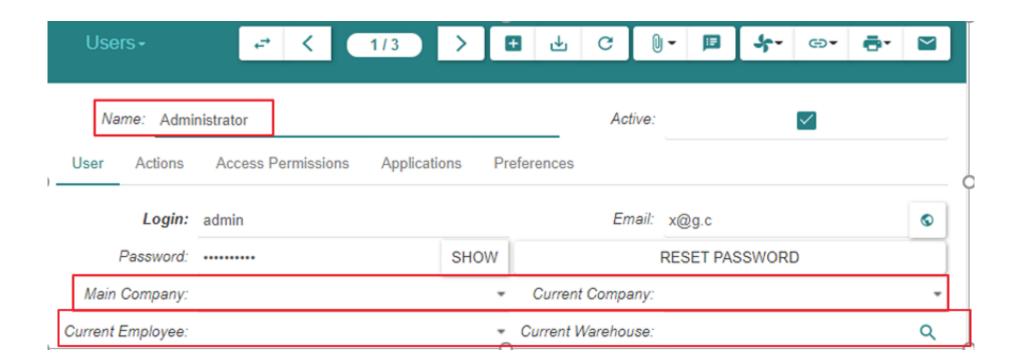
Precondition

- Before activating the Financial Modules, it is advised to properly configure the « Administrator » user
- The user should reference:
 - The « Current Company » field with e.g. « COM01 » i.e. the company for which the « Chart of Accounts » will be created.
 - An « Employee » field with e.g. « EMP01 » who is part of « Company COM01 »
- Under those conditions, at the end of module activation, a « Create Chart of Accounts » wizard will be able to reference « COM01 » and create the chart of accounts appropriately.



Error conditions

- If « User Administrator » activates financial modules without referencing « Company COM01 », the creation of the « Chart of Accounts » will have to be aborted. Should this be the case, we will show how to recover from this situation and, more generally, show how to execute once again a previously aborted wizard.
- If « User Administrator » activates financial modules without referencing « Employee EMP01 », the Menu
 Tree Item « Financial » is not created in the left pane. We have not found a way to recover from this error
 situation besides restoring the database in a state « before »



Activating Modules

Modules +			← <	46/154 >
FILTERS Search				Perform Pending Act
Name	Version	State	Mark for Upgrade	Mark for Activation Mark for Activation Translate view
account	5.8.2	Not Activated		MARK FOR ACTIVAT
✓ account_asset	5.8.2	Not Activated		MARK FOR ACTIVAT
account_be	5.8.1	Not Activated		MARK FOR ACTIVAT
account_cash_rounding	5.8.1	Not Activated		MARK FOR ACTIVAT
account_credit_limit	5.8.1	Not Activated		MARK FOR ACTIVAT
account_deposit	5.8.1	Not Activated		MARK FOR ACTIVAT
account_de_skr03	5.8.1	Not Activated		MARK FOR ACTIVAT
account_dunning	5.8.1	Not Activated		MARK FOR ACTIVAT
account_dunning_email	5.8.1	Not Activated		MARK FOR ACTIVAT
account_dunning_fee	5.8.1	Not Activated		MARK FOR ACTIVAT
✓ account_dunning_letter	5.8.1	Not Activated		MARK FOR ACTIVAT
✓ account_es	5.8.3	Not Activated		MARK FOR ACTIVAT
✓ account_eu	5.8.1	Not Activated		MARK FOR ACTIVAT
✓ account_fr	5.8.1	Not Activated		MARK FOR ACTIVAT
account_fr_chorus	5.8.1	Not Activated		MARK FOR ACTIVAT
✓ account_invoice	5.8.3	Not Activated		MARK FOR ACTIVAT
account_invoice_correction	5.8.1	Not Activated		MARK FOR ACTIVAT
account_invoice_history	5.8.1	Not Activated		MARK FOR ACTIVAT
account_invoice_line_standalone	5.8.1	Not Activated		MARK FOR ACTIVAT
account_invoice_secondary_unit	5.8.1	Not Activated		MARK FOR ACTIVAT
account_invoice_stock	5.8.1	Not Activated		MARK FOR ACTIVAT
account_payment	5.8.2	Not Activated		MARK FOR ACTIVAT
✓ account_payment_braintree	5.8.2	Not Activated		MARK FOR ACTIVAT

\checkmark	account_payment_sepa	5.8.1	Not Activated	MARK FOR ACTIVAT
~	account_payment_sepa_cfonb	5.8.1	Not Activated	MARK FOR ACTIVAT
~	account_payment_stripe	5.8.2	Not Activated	MARK FOR ACTIVAT
~	account_product	5.8.1	Not Activated	MARK FOR ACTIVAT
~	account_statement	5.8.1	Not Activated	MARK FOR ACTIVAT
~	account_statement_aeb43	5.8.1	Not Activated	MARK FOR ACTIVAT
\checkmark	account_statement_coda	5.8.1	Not Activated	MARK FOR ACTIVAT
\checkmark	account_statement_ofx	5.8.2	Not Activated	MARK FOR ACTIVAT
\checkmark	account_statement_rule	5.8.2	Not Activated	MARK FOR ACTIVAT
~	account_stock_anglo_saxon	5.8.1	Not Activated	MARK FOR ACTIVAT
~	account_stock_continental	5.8.1	Not Activated	MARK FOR ACTIVAT
~	account_stock_landed_cost	5.8.1	Not Activated	MARK FOR ACTIVAT
~	account_stock_landed_cost_weight	5.8.1	Not Activated	MARK FOR ACTIVAT
~	account_tax_cash	5.8.1	Not Activated	MARK FOR ACTIVAT
~	account_tax_rule_country	5.8.1	Not Activated	MARK FOR ACTIVAT
~	analytic_account	5.8.1	Not Activated	MARK FOR ACTIVAT
~	analytic_invoice	5.8.1	Not Activated	MARK FOR ACTIVAT
\checkmark	analytic_purchase	5.8.1	Not Activated	MARK FOR ACTIVAT
\checkmark	analytic_sale	5.8.1	Not Activated	MARK FOR ACTIVAT
	attendance	5.8.2	Not Activated	MARK FOR ACTIVAT
	authentication_sms	5.8.1	Not Activated	MARK FOR ACTIVAT
~	bank	5.8.1	Not Activated	MARK FOR ACTIVAT

Modules to update

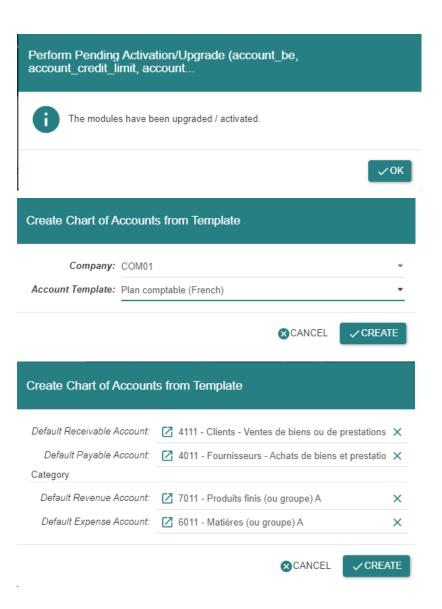
account: to activate account asset: to activate account be: to activate account cash rounding: to activate account credit limit: to activate account deposit: to activate account de skr03: to activate account_dunning: to activate account dunning email: to activate account dunning fee: to activate account dunning letter: to activate account es: to activate account eu: to activate account fr: to activate account fr chorus: to activate account invoice: to activate account invoice correction: to activate account invoice history: to activate account invoice line standalone: to activate account invoice secondary unit: to activate account_invoice_stock: to activate account payment: to activate account payment braintree: to activate account payment clearing: to activate account payment sepa: to activate account_payment_sepa_cfonb: to activate account payment stripe: to activate account product: to activate account statement: to activate account statement aeb43: to activate account statement coda: to activate account statement ofx: to activate account statement rule: to activate

account stock anglo saxon: to activate account stock continental: to activate account stock landed cost: to activate account stock landed cost weight: to activate account tax cash: to activate account tax rule country: to activate analytic account: to activate analytic invoice: to activate analytic purchase: to activate analytic sale: to activate

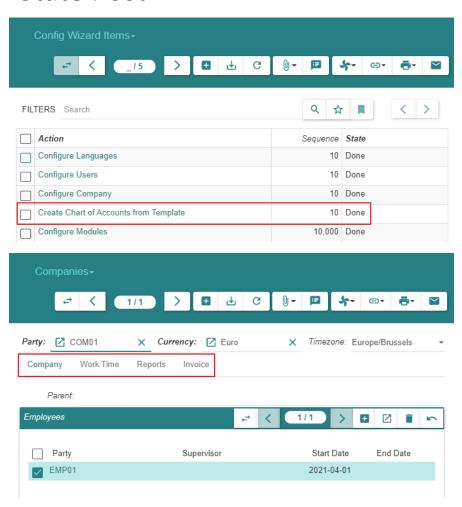
bank: to activate

product: to activate product measurements: to activate

purchase: to activate

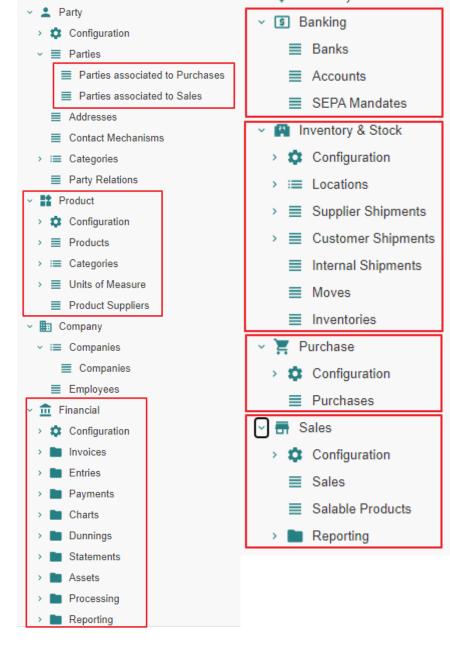


State Post

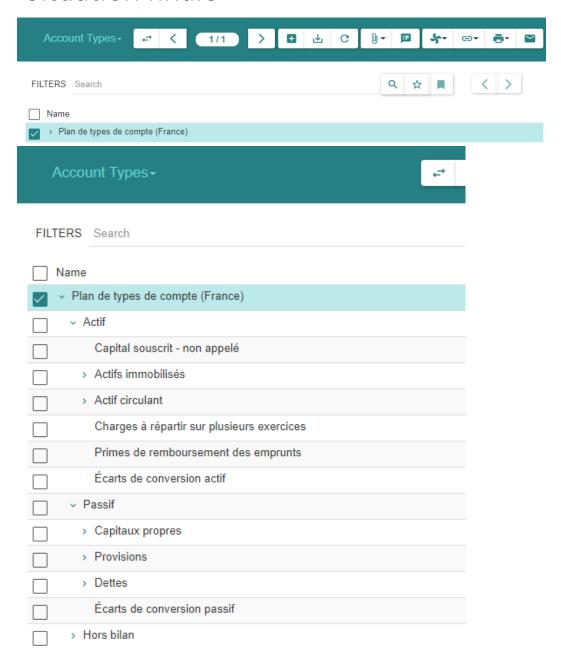


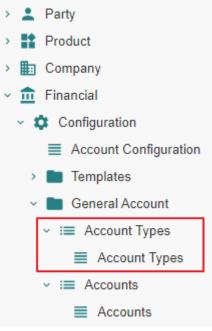
Notice:

- The « Create Chart of Accounts from Template » wizard Item is « done »
- The « Company COM01 » has no « Accounting » Tab
- There are additional Menu Items in the Menu Tree

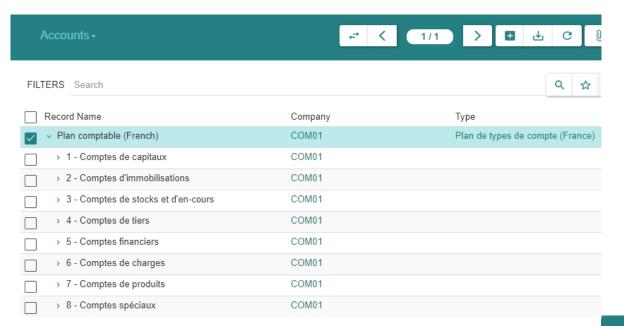


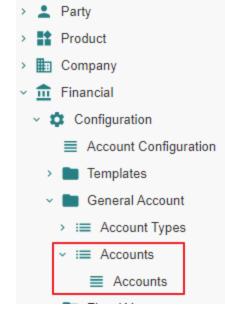
Situation finale

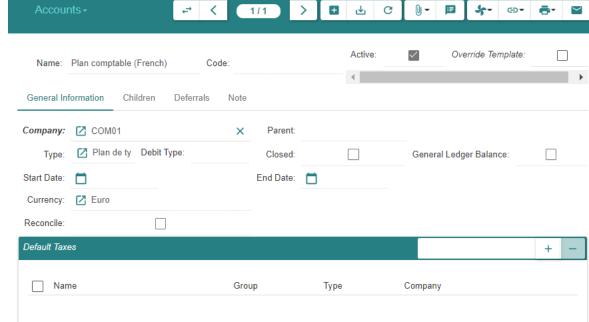




Situation finale







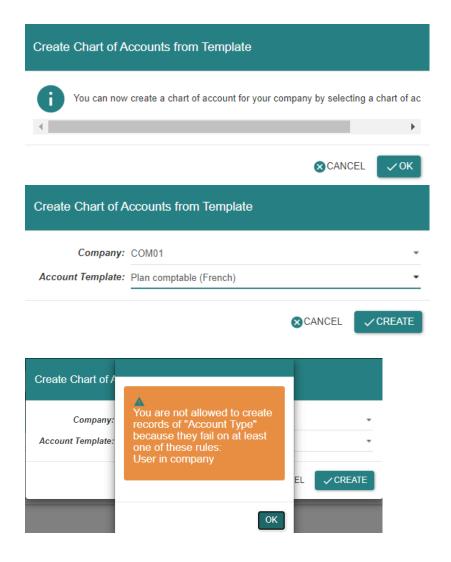
Situation finale

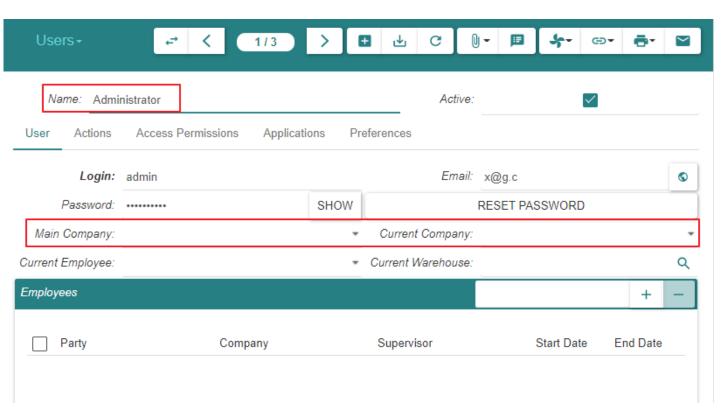
▼ (266)

- > maccount_account
- > == account_account_deferral
- > == account_account_tax_rel
- > == account_account_template
- > == account_account_template_tax_rel
- > == account_account_type
- account_account_type_template
- > maccount_asset
- > == account_asset-update-account_move
- > == account_asset_line
- == account_configuration
- > == account_configuration_asset_date
- > == account_configuration_asset_frequency
- > == account_configuration_asset_sequence
- > == account_configuration_cash_rounding_account
- > == account_configuration_default_account
- > == account_configuration_default_credit_limit_amount
- > == account_configuration_default_dunning_procedure
- > = account_configuration_default_tax_rule
- > == account_configuration_landed_cost_sequence
- > == account_configuration_payment_group_sequence
- > == account_configuration_sepa_mandate_sequence
- > == account_configuration_stock_journal
- > == account_configuration_tax_rounding
- > == account_credential_chorus
- > maccount_dunning
- > == account_dunning_email_log
- > maccount_dunning_fee

Error Case

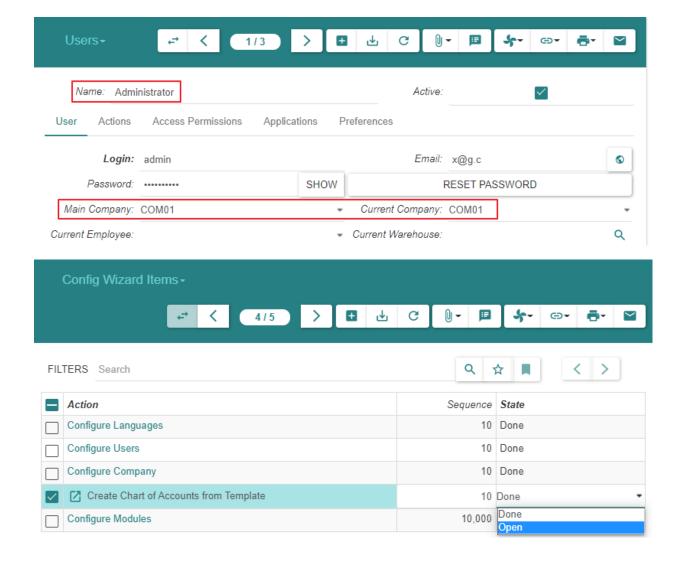
Error case - « User Administration » is not linked to « Company COM01 »

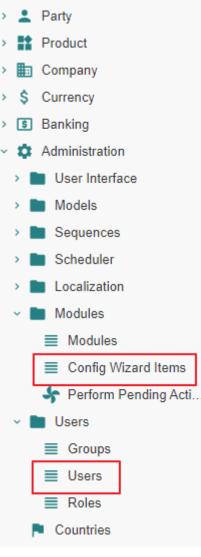




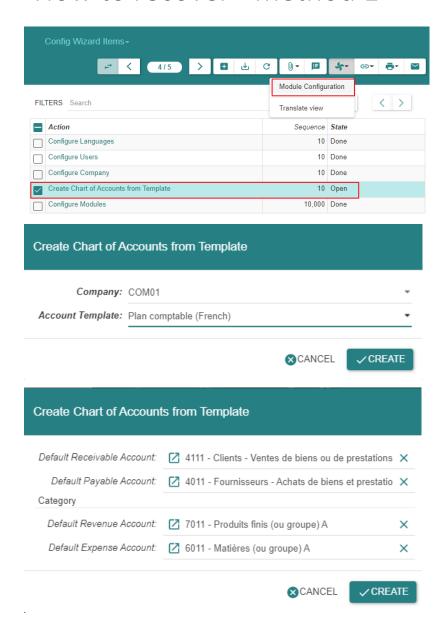
How to recover

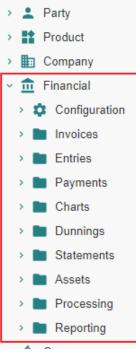
- A announced in the « Precondition », we set the link to our company « COM01 »
- We modify the wizard state from « done » to « open »



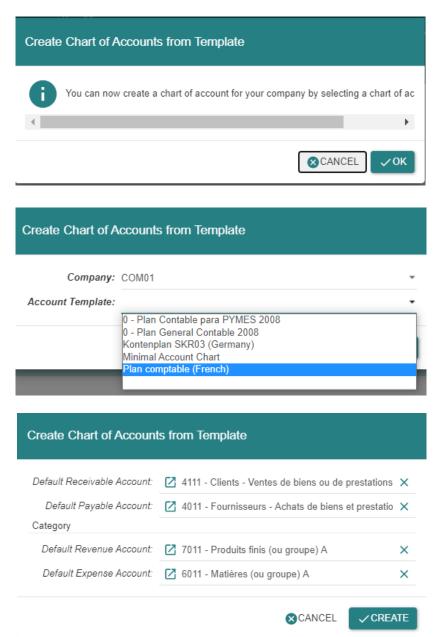


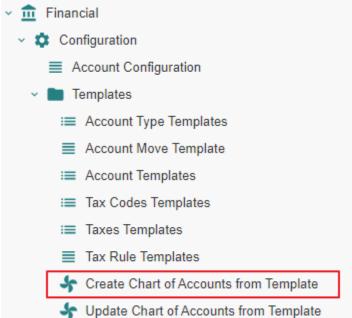
How to recover - method 1





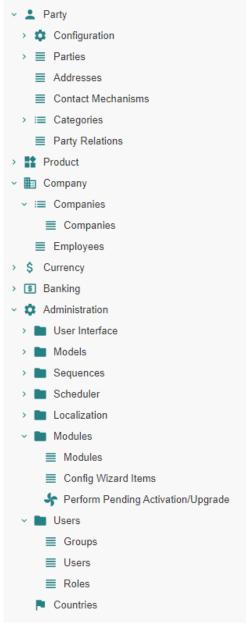
How to recover - method 2





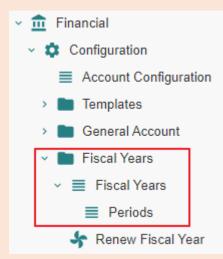
Error case - « User Administration » is not linked to « Employee EMP01 »

- The Menu Tree Item « Financial » is not created
- There is apparently no way to recover except to restore the database in a prior state and to update the « User Administrator » with the appropriate « Company COM01 » and « Employee EMP01 » links



Financial - Fiscal Years & Periods

→ Language
→ Party
→ Product
→ Company
→ Financial
→ Currency
→ Banking
→ Party
→ Company
→ Stock
→ Administration



Accounts:

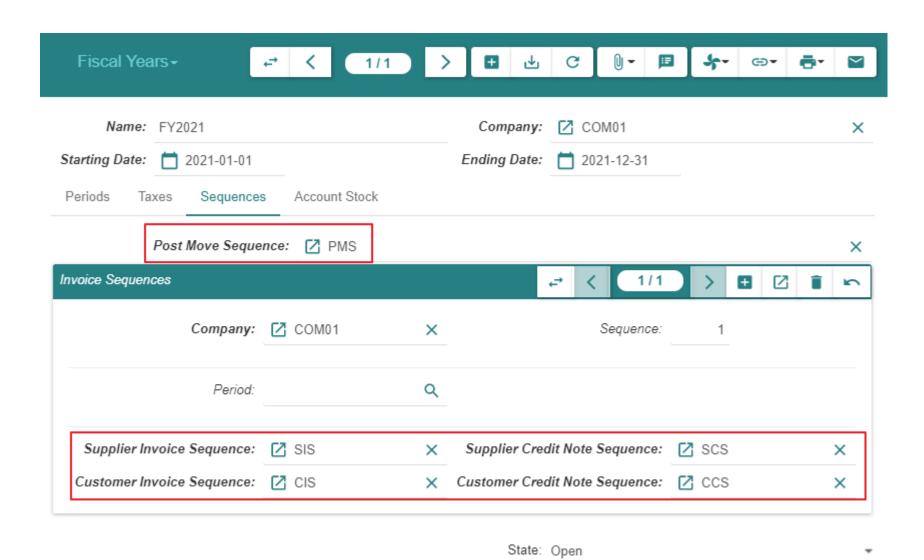
[https://tryton-administration-manual.readthedocs.io/en/latest/accounts.html]

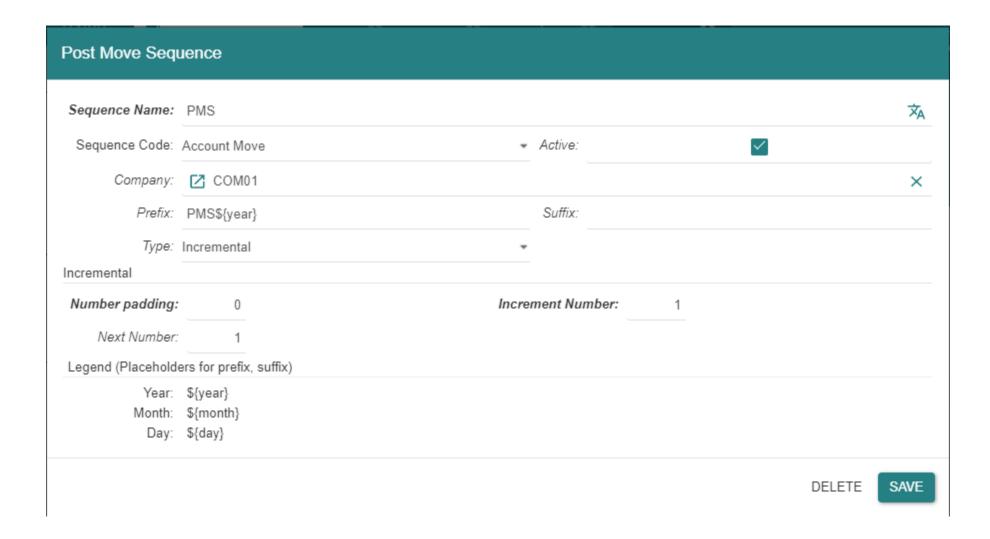
Post Move Sequence:

[https://groups.google.com/g/tryton/c/a4fobeaYn48]

Opening a Fiscal Year :

[https://discuss.tryton.org/t/how-to-create-a-fiscalyear/2380]

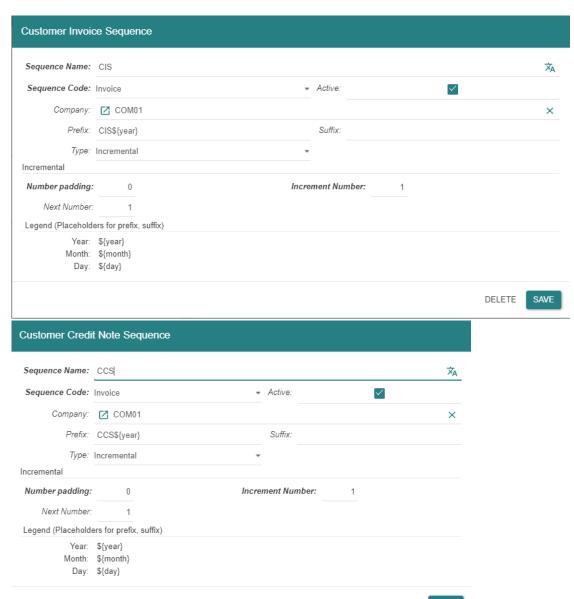




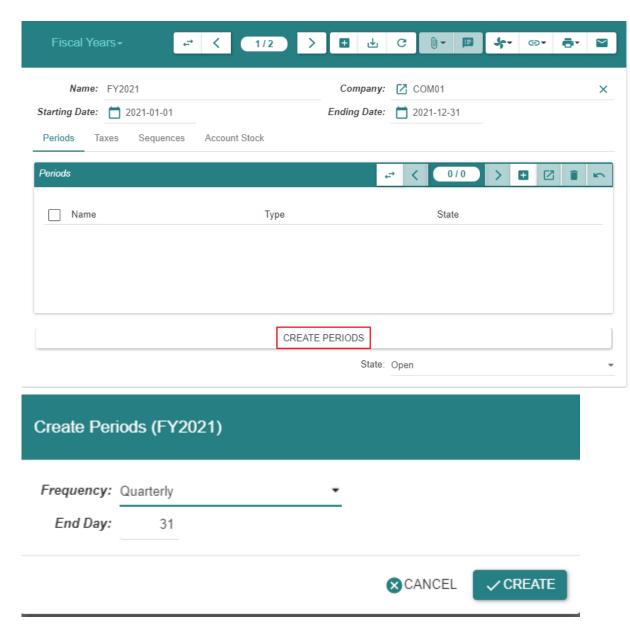
Supplier Invoice	Sequence			
Sequence Name:	SIS			×̇₄
Sequence Code:	Invoice		Active:	✓
Company:	☑ COM01			×
Prefix:	SIS\${year}		Suffix:	
Туре:	Incremental			
Incremental				
Number padding:	0	Incre	ement Number: 1	
Next Number:	1			
Legend (Placeholde	ers for prefix, suffix)			
Year:	\${year}			
	\${month}			
Day:	\${day}			
				DELETE SAVE

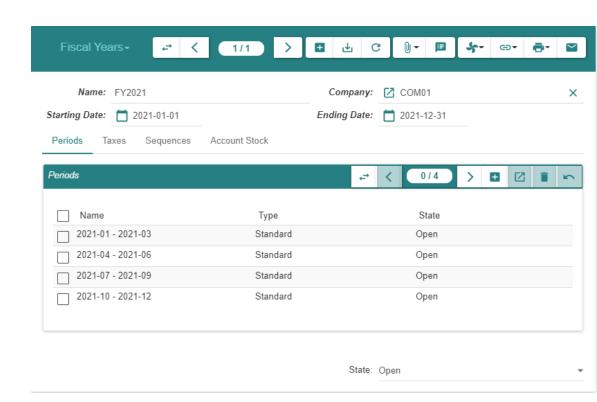
Supplier Credit Note Sequence									
Sequence Name:	scs		本						
Sequence Code:	Invoice								
Company:	COM01		×						
Prefix:	SCS\${year}	Suffix:							
Type:	Incremental	*							
Incremental									
Number padding:	0	Increment Number: 1							
Next Number:	1								
Legend (Placeholde	ers for prefix, suffix)								
	\${year}								
	\${month}								
Day:	\${day}								

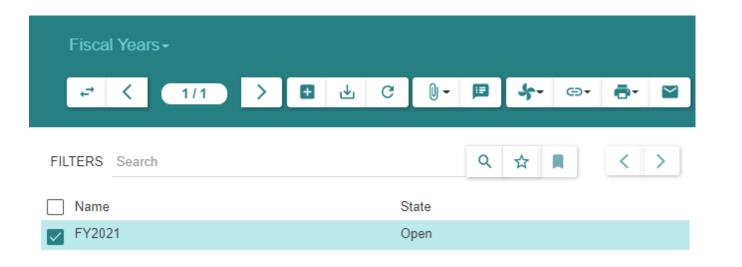
CANCEL

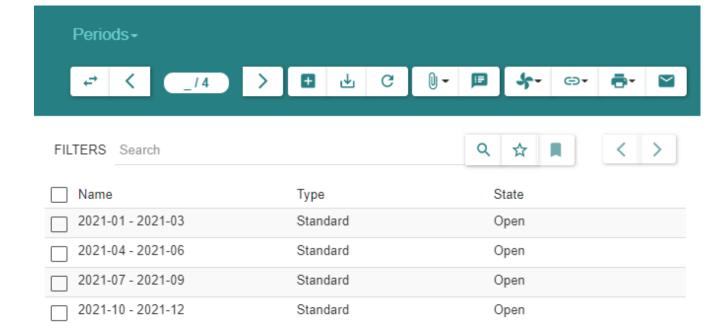


Create Periods



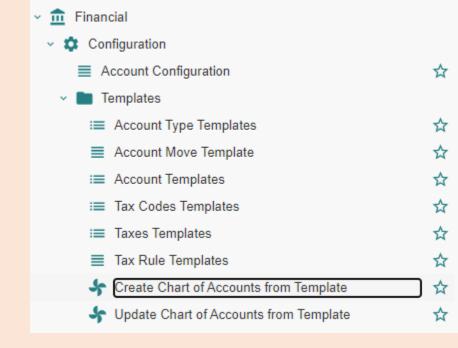




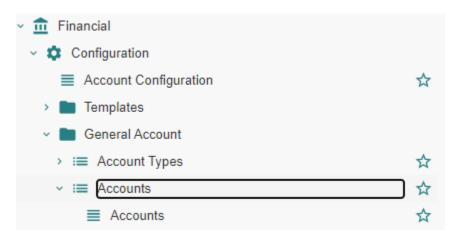




Financial - Chart of Accounts



Execute

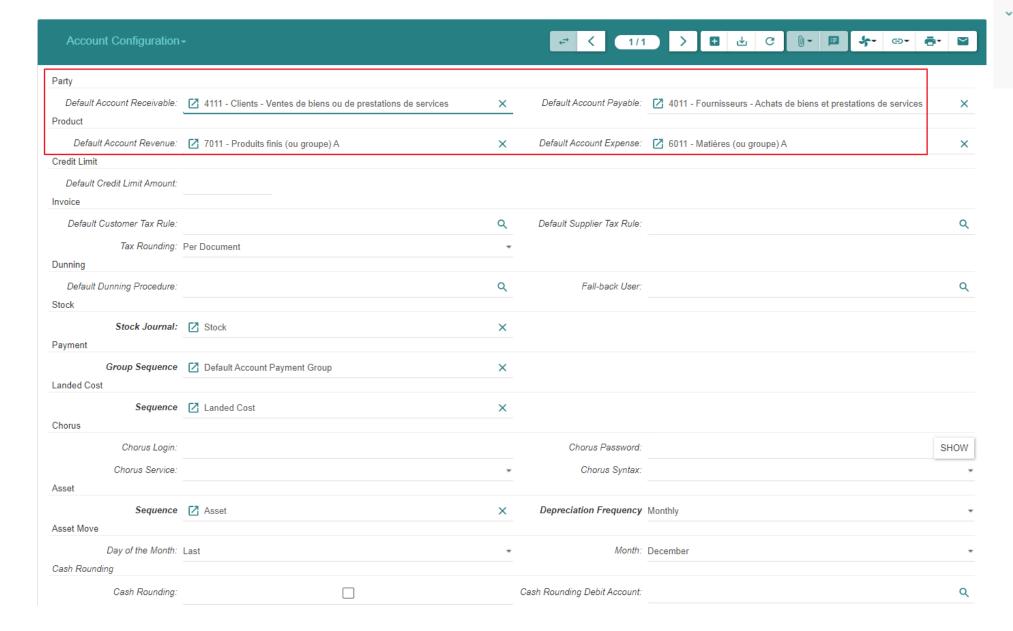


Accounts -

FILTERS Search

Record Name	Company
✓ Plan comptable (French)	COM01
> 1 - Comptes de capitaux	COM01
> 2 - Comptes d'immobilisations	COM01
> 3 - Comptes de stocks et d'en-cours	COM01
> 4 - Comptes de tiers	COM01
> 5 - Comptes financiers	COM01
> 6 - Comptes de charges	COM01
> 7 - Comptes de produits	COM01
> 8 - Comptes spéciaux	COM01

Account configuration



Party

Product

Company

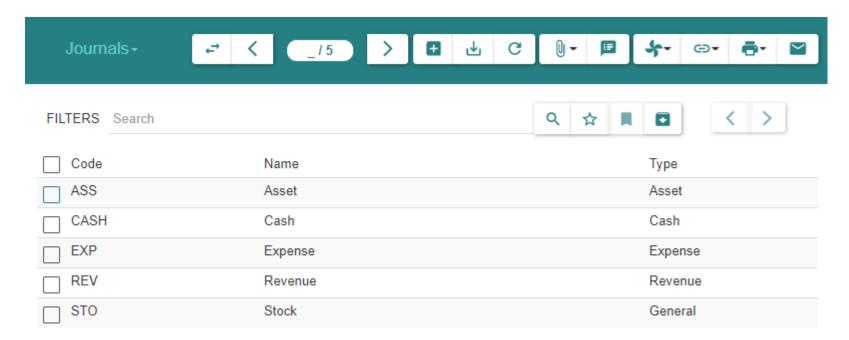
in Financial

Configuration

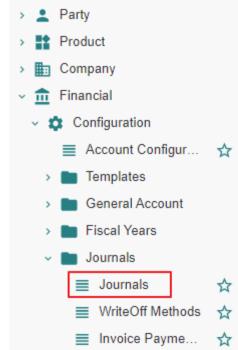
Account Configuration

Financial - Journals

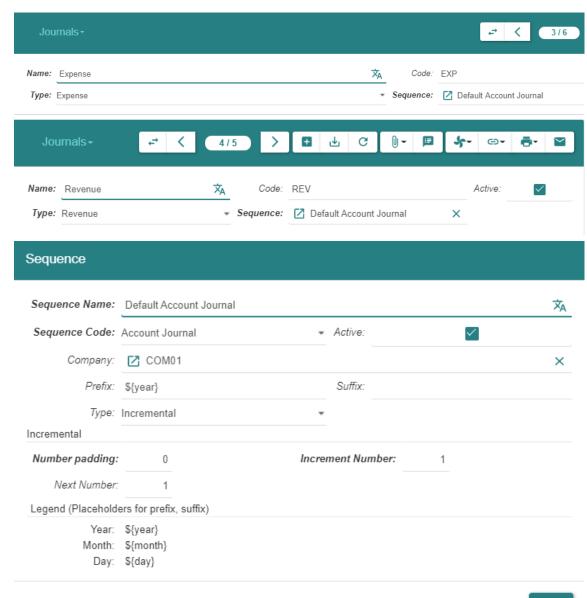
Journals







Journals

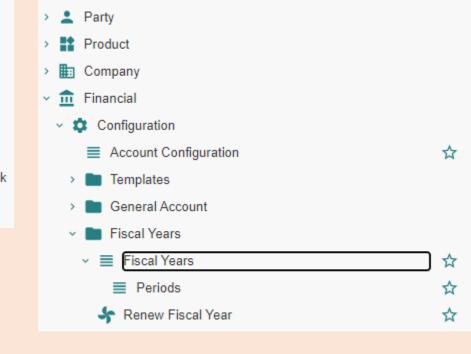




> 🙎 Party

> Product

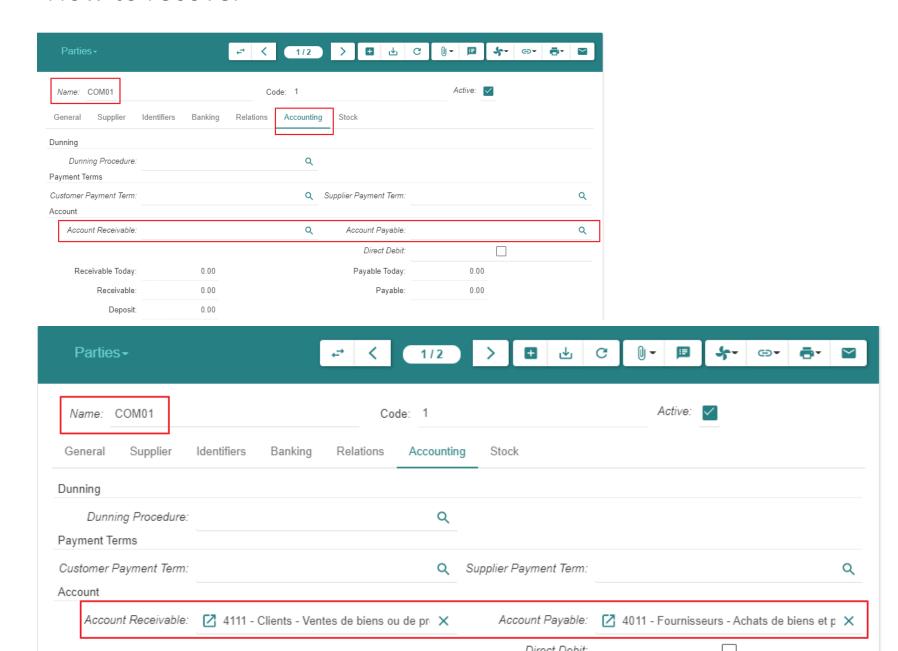
> 🛅 Company





Party

How to recover

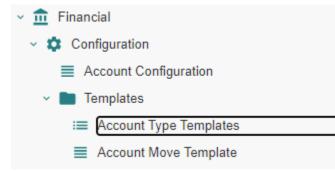


Database

- ▼ (354)
 - > maccount_account
 - > == account_account_deferral
 - > == account_account_tax_rel
 - > == account_account_template
 - > = account_account_template_tax_rel
 - > maccount_account_type
 - > == account_account_type_template

Account Type Templates (1/2)





Account Type Templates (2/2)

Notifications

Explain Messages

Data Output

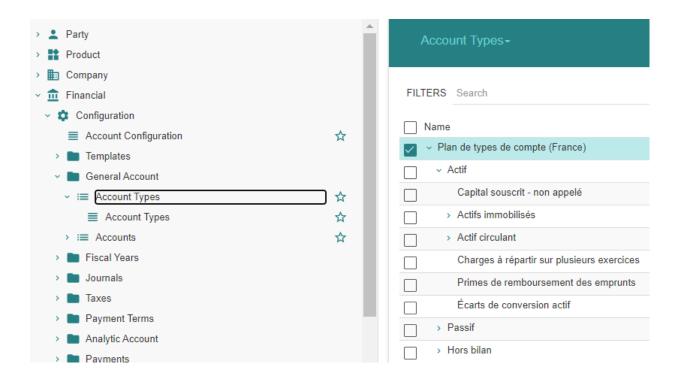
Templates are used to generate the actual « Chart of Account ». As such, there is no reference to a « Company »



- > 🗎 Columns
- ✓ ► Constraints (3)
 - √ account_account_type_template_id_positive
 - @ account_account_type_template_parent_fkey
 - @ account_account_type_template_pkey

4	id [PK] integer	assets boolean	create_date timestamp without time zone	create_uid integer	expense boolean	name character varying	parent integer	payable boolean	receivable boolean	revenue boolean	sequence integer	statement character varying	stock boolean
1	1	false	2021-03-08 11:42:32.073204	0	false	Minimal Account Type	[null]	false	false	false	10	[null]	false
2	2	true	2021-03-08 11:42:32.073204	0	false	Asset	1	false	false	false	10	balance	false
3	3	true	2021-03-08 11:42:32.073204	0	false	Current	2	false	false	false	10	balance	false
4	4	true	2021-03-08 11:42:32.073204	0	false	Cash	3	false	false	false	10) balance	false
5	5	true	2021-03-08 11:42:32.073204	0	false	Receivable	3	false	true	false	20) balance	false
6	6	true	2021-03-08 11:42:32.073204	0	false	Long-term	2	false	false	false	20) balance	false
7	7	false	2021-03-08 11:42:32.073204	0	false	Liability	1	false	false	false	20) balance	false
8	8	false	2021-03-08 11:42:32.073204	0	false	Current	7	false	false	false	10	balance	false
9	9	false	2021-03-08 11:42:32.073204	0	false	Payable	8	true	false	false	10	balance	false
10	10	false	2021-03-08 11:42:32.073204	0	false	Tax	8	false	false	false	20) balance	false
11	11	false	2021-03-08 11:42:32.073204	0	false	Long-term	7	false	false	false	20) balance	false
12	12	false	2021-03-08 11:42:32.073204	0	false	Equity	1	false	false	false	30	balance	false
13	13	false	2021-03-08 11:42:32.073204	0	false	Income	12	false	false	false	40	income	false
14	14	false	2021-03-08 11:42:32.073204	0	false	Revenue	13	false	false	true	10	income	false
15	15	false	2021-03-08 11:42:32.073204	0	true	Expense	13	false	false	false	20	income	false
16	16	false	2021-03-08 11:42:32.073204	0	false	Off-Balance	1	false	false	false	60	off-balance	false
17	17	false	2021-03-08 11:42:51.929697	0	false	Kontentypenplan SKR0	[null]	false	false	false	10	[null]	false
18	18	false	2021-03-08 11:42:51.929697	0	false	Aktiva	17	false	false	false	10	balance	false

Account Types (1/2)

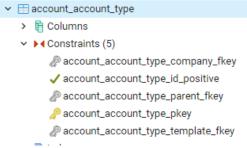




The « Account Type » contains a reference to the « Company ».

This contrasts with the « Account Type Template » which does not

Account Types (2/2)



Data (ata Output Explain Messages Notifications													
4	id [PK] integer	assets boolean	company integer	create_date timestamp without time zone	create_uid integer	r .	expense boolean	name character varying	parent integer	payable boolean	receivable boolean	revenue boolean	sequence integer	statement character varying
1	1	false	1	2021-03-08 16:49:00.218444		1 f	false	Plan de types de comp	[null]	false	false	false	10	[null]
2	2	true	1	2021-03-08 16:49:00.218444		1 f	false	Actif	1	false	false	false	10	balance
3	3	false	1	2021-03-08 16:49:00.218444		1 f	false	Passif	1	false	false	false	20	balance
4	4	false	1	2021-03-08 16:49:00.218444		1 f	false	Hors bilan	1	false	false	false	30	off-balance
5	5	true	1	2021-03-08 16:49:00.218444		1 f	false	Capital souscrit - non a	2	false	false	false	10	balance
6	6	true	1	2021-03-08 16:49:00.218444		1 f	false	Actifs immobilisés	2	false	false	false	20	balance
7	7	true	1	2021-03-08 16:49:00.218444		1 f	false	Actif circulant	2	false	false	false	30	balance
8	8	true	1	2021-03-08 16:49:00.218444		1 f	false	Charges à répartir sur	2	false	false	false	40	balance
9	9	true	1	2021-03-08 16:49:00.218444		1 f	false	Primes de rembourse	2	false	false	false	50	balance
10	10	true	1	2021-03-08 16:49:00.218444		1 f	false	Écarts de conversion a	2	false	false	false	60	balance
11	11	false	1	2021-03-08 16:49:00.218444		1 f	false	Capitaux propres	3	false	false	false	10	balance

Account Templates (1/3)



@ account_account_template_debit_type_fkey

@ account_account_template_replaced_by_fkey

√ account_account_template_id_positive

@ account_account_template_parent_fkey

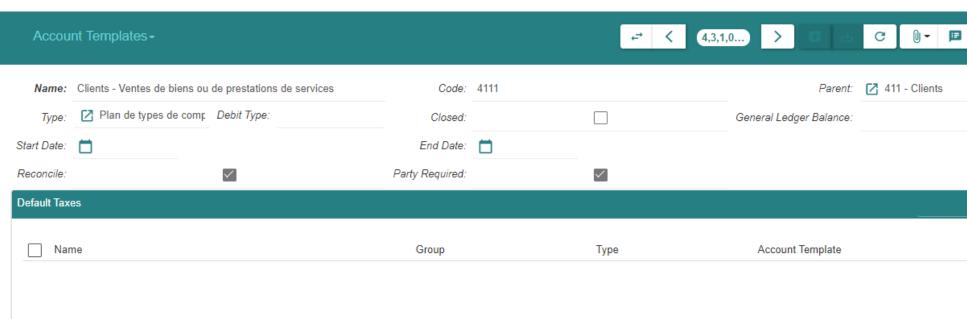
@ account_account_template_type_fkey

@ account_account_template_pkey



Account Templates (2/3)





Account Templates (3/3) - Note

Data Output Explain Messages Notifications											
4	id [PK] integer	closed boolean	code character varying	create_date timestamp without time zone	create_uid integer	debit_type integer	end_date date	general_ledger_balance boolean	name character varying		
1	1	true	[null]	2021-03-08 11:42:32.073204	0	[null]	[null]	false	Minimal Account Chart		
2	2	false	[null]	2021-03-08 11:42:32.073204	0	[null]	[null]	false	Main Receivable		
3	3	false	[null]	2021-03-08 11:42:32.073204	0	[null]	[null]	false	Main Payable		
4	4	false	[null]	2021-03-08 11:42:32.073204	0	[null]	[null]	false	Main Revenue		

Accounts (1/2)

Accounts -

FILTERS Search

Record Name Company Plan comptable (French) COM01 - Comptes de capitaux COM01 > 10 - Capital et réserves COM01 > 11 - Report à nouveau (solde créditeur ou débiteur) COM01 > 12 - Résultat de l'exercice (bénéfice ou perte) COM01 > 13 - Subventions d'investissement COM01 > 14 - Provisions réglementées COM01 > 15 - Provisions COM01 > 16 - Emprunts et dettes assimilées COM01

> 18 - Comptes de liaison des établissements et sociétés en particip...

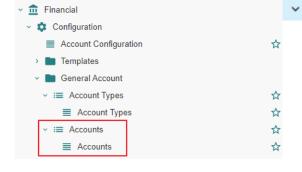
> 17 - Dettes rattachées à des participations

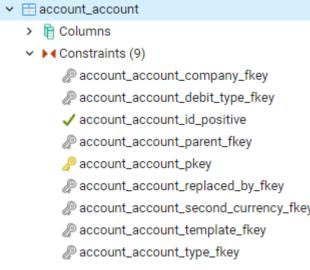
> 2 - Comptes d'immobilisations

COM01

COM01

COM01





Accounts (2/2)

Query Editor Query History Scratch I 1 SELECT * FROM public.account_account 2 ORDER BY id ASC Data Output Explain Messages Notifications company template debit_type note text id general_ledger_balance closed code create_uid end_date name integer [PK] integer character varying integer I time zone date integer boolean boolean character varying 1175 f)0.218444 [null] [null] 1 false [null] 1 Plan comptable (French) [null] false 1176 f)0.218444 2 false 1 [null] [null] 2 Comptes de capitaux [null] 2 false 1325 f_{)0.218444} [null] [null] 3 3 false 2 false 300 Comptes d'immobilisat... [null] 1689 f_{)0.218444} [null] [null] 4 false 3 false 1028 Comptes de stocks et ... [null] 4 1781 f_{)0.218444} [null] [null] 1212 Comptes de tiers 5 5 false 4 false [null] 1945 f_{)0.218444} [null] [null] 6 6 false 5 false 1540 Comptes financiers [null] 1998 f_{)0.218444} 7 false 6 [null] [null] 7 1 false 1646 Comptes de charges [null]

Problem with closed accounts

[https://discuss.tryton.org/t/value-for-field-account-is-not-valid/3106/9]

Select * from account_account where closed = true; UPDATE account_account SET closed = false WHERE closed = true;

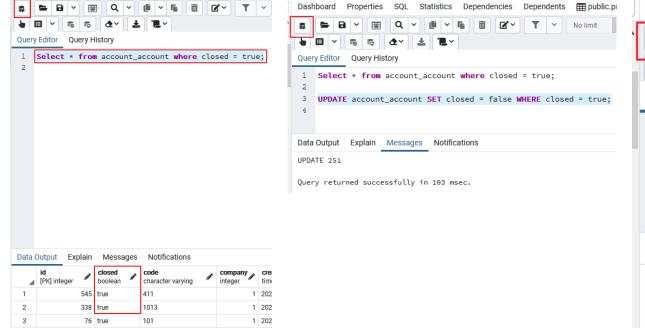


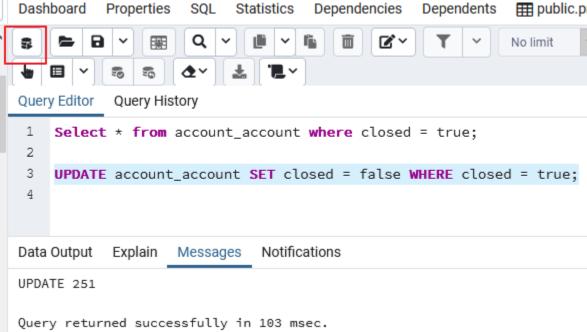
Marc

wate

I hit the same problem with the « French » chart of account whilst creating a Sales Order. What I did:

- Run the query « Select * from account_account where closed = true; » in « Postgres / pgadmin4 »
- This query confirmed that 252 accounts were « closed »
- · I did not bother to find out which one
- Run the query « UPDATE account_account SET closed = false WHERE closed = true; »
- That solved the problem: I could advance the Sales Order to « Process »
 Suggestion: whilst processing the sales order, to have the error message display one such account encountered in this state up until there are no more in that state.





Logins

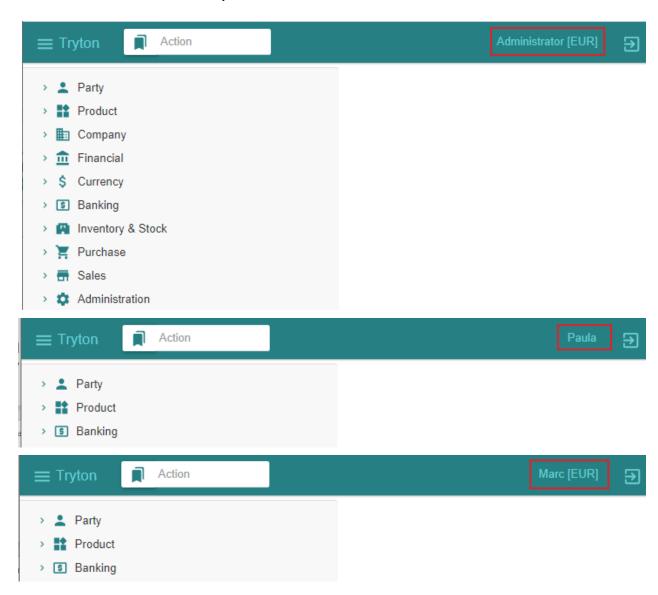
Motivation

- We experiment in changing user authorizations with respect to accessing subject areas in the application
- The « User Administrator » can tailor this by exercising
 « User Groups » and « User Roles »

- > 🙎 Party
- > # Product
- > 🏥 Company
- > m Financial
- > \$ Currency
- > **S** Banking
- > 📳 Inventory & Stock
- > 📜 Purchase
- > 📻 Sales
- Administration
 - User Interface
 - > Models
- Sequences
- > Scheduler
- > Localization
- > Modules
- Users
 - **■** Groups
 - Users
 - Roles

User Capabilities - Ante

State - User Capabilities

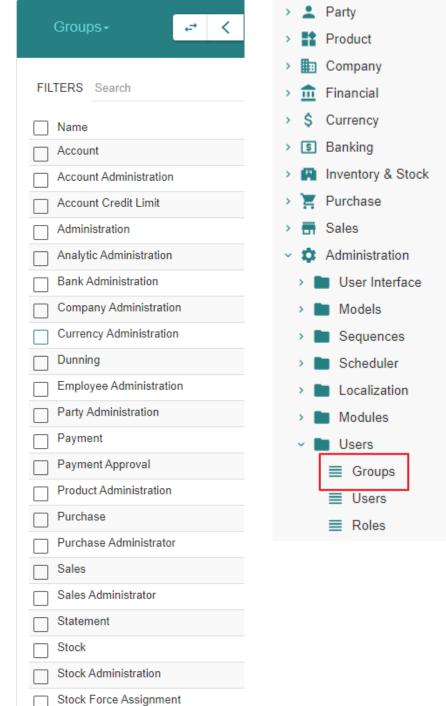


User Groups - Modify

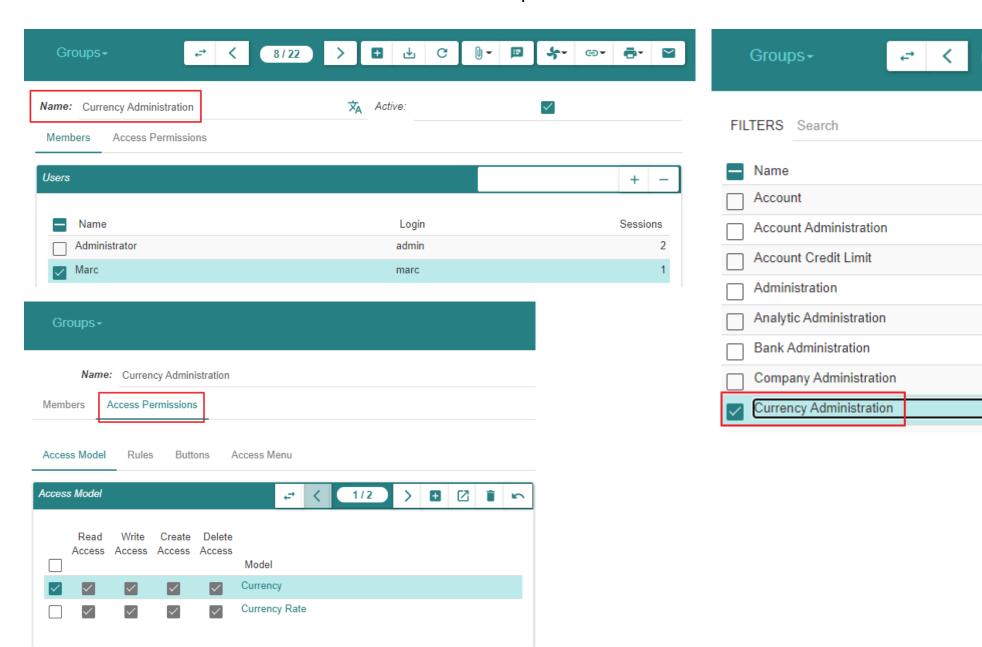
List of « User Groups »

Linking the « User » and the « Group » is possible in two ways :

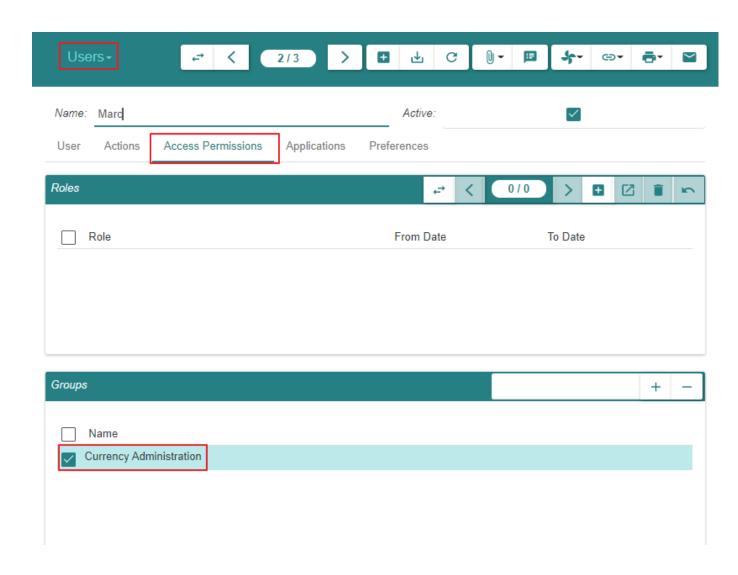
- Method 1: displaying the choosen group then linking the user to it
- Method 2: displaying the choosen user then linking the group to it



Attach « User Marc » to a « User Group » - Method 1



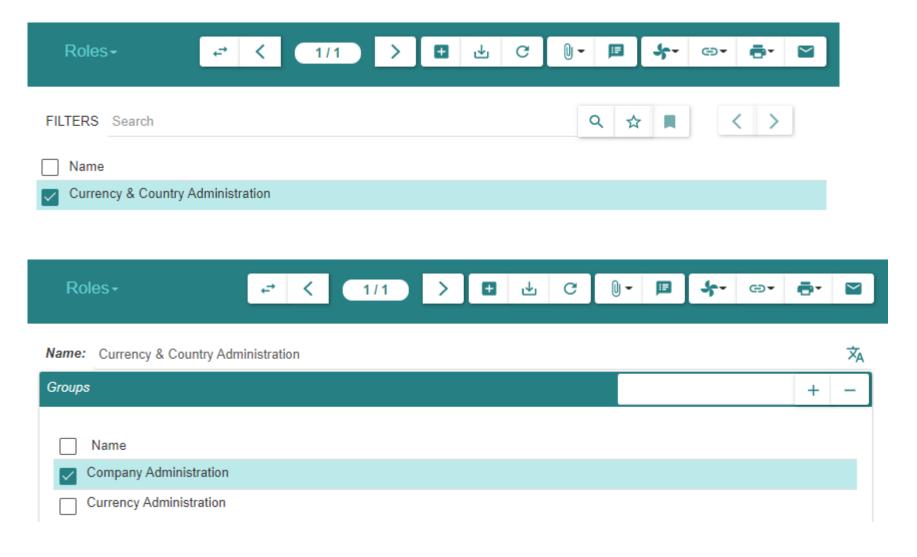
Attach a « User Group » to « User Marc » - Method 2



User Roles - Modify

« User Roles »

We define a « Role » that aggregates two « Groups »

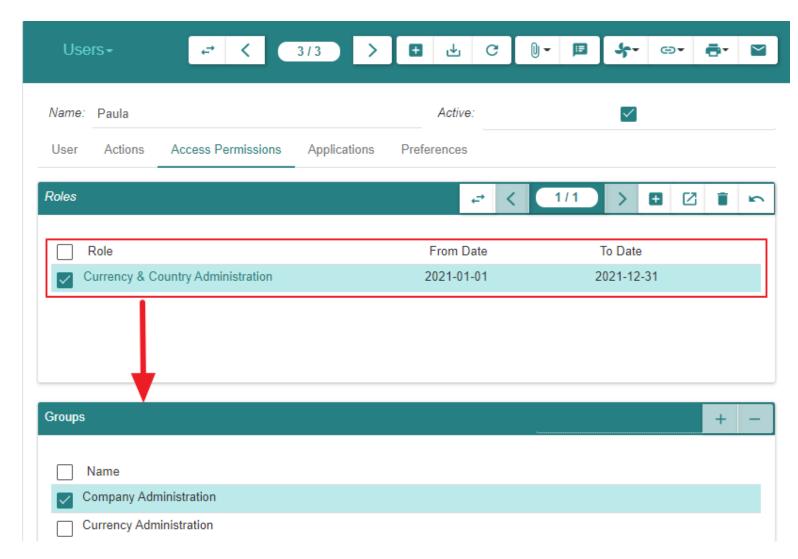


- > 💄 Party
- > 🏗 Product
- Company 🛅
- financial
- \$ Currency
- > S Banking
- Inventory & Stock
- > 📜 Purchase
- Sales
- Administration
 - User Interface
 - > Models
- Sequences
- Scheduler
- > Localization
- > Modules
- ∨ Users
 - Groups
 - Users



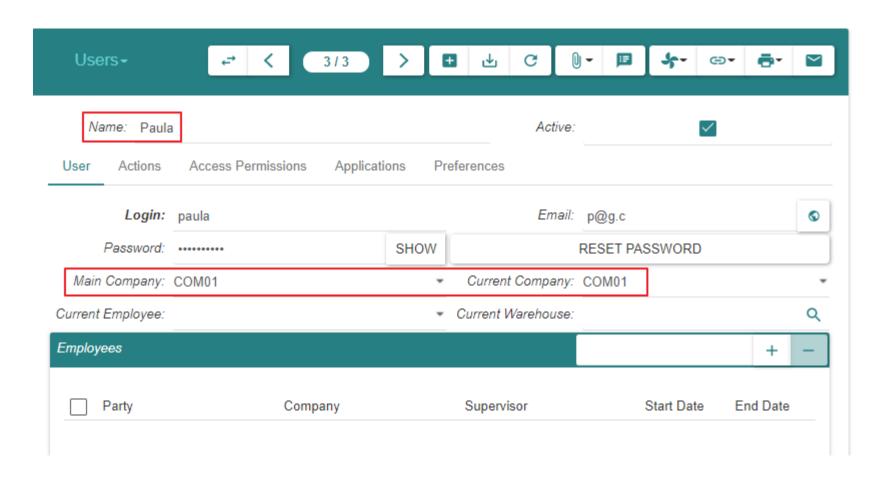
Attach « User Paula » to a « User Role » 1/2

- Once a « Role » is defined, it can be referenced by a « User »
- Attaching a « Role » allows also to restrain the « from » and « to » dates



Attach « User Paula » to a « User Role » 2/2

- We must remember that « User Paula » has no reference so far to « Company COM01 »
- In order to obtain the intended result for « User Paula », i.e. displaying the « Country » and « Currency » Menu Tree Items, we must add that reference.



User Capabilities - Post

State - User Capabilities

