

Trees

Tree Note

- The publicid will be prefixed with a # after elimination. Like this we may reuse the physical publicid label.
- Varitey trees have no row\_id and no site\_id. For all others it's a must have.

rows
id INT
code VARCHAR(45)
date_created DATE
date_eliminated DATE
deleted DATETIME
created DATETIME
modified DATETIME
Indexes

trees
id INT
publicid CHAR(9)
date_grafted DATE
date_planted DATE
date_eliminated DATE
genuine_seedling BOOLEAN
migrated_tree BOOLEAN
offset FLOAT
note TEXT
variety_id INT
rootstock_id INT
grafting_id INT
row_id INT
experiment_site_id INT
deleted DATETIME
created DATETIME
modified DATETIME
Indexes

trees\_view

graftings
id INT
name VARCHAR(140)
Indexes

rootstocks
id INT
name VARCHAR(140)
Indexes

experiment_sites
id INT
name VARCHAR(140)
Indexes

Experiment Site Note

The sites are directly attached to the tree for performance reasons. We will select the site on application launch and it will be stored for the whole session. It won't be considered in getter methods, but it will be automatically set on setter methods.

Auxiliaries

users
id INT(11)
email VARCHAR(255)
password VARCHAR(255)
level INT(11)
time_zone VARCHAR(120)
created DATETIME
modified DATETIME
Indexes

mother\_trees\_view

mother_trees
id INT
code VARCHAR(45)
planned BOOLEAN
date_pollen_harvested DATE
date_impregnated DATE
date_fruit_harvested DATE
numb_portions INT
numb_flowers INT
numb_seeds INT
target TEXT
note TEXT
tree_id INT
crossing_id INT
deleted DATETIME
created DATETIME
modified DATETIME
Indexes

crossings\_view

crossings
id INT
code VARCHAR(8)
mother_variety_id INT
father_variety_id INT
deleted DATETIME
created DATETIME
modified DATETIME
Indexes

batches\_view

batches
id INT
code CHAR(3)
date_sowed DATE
numb_seeds_sowed INT
numb_sprouts_grown INT
seed_tray VARCHAR(140)
date_planted DATE
numb_sprouts_planted INT
patch VARCHAR(140)
note TEXT
crossing_id INT
deleted DATETIME
created DATETIME
modified DATETIME
Indexes

varieties\_view

varieties
id INT
code VARCHAR(45)
official_name VARCHAR(140)
acronym VARCHAR(10)
plant_breeder VARCHAR(255)
registration VARCHAR(140)
description TEXT
batch_id INT
deleted DATETIME
created DATETIME
modified DATETIME
Indexes

Varieties Note

The former name of this table was clone. It was changed due to its ambiguousness with the php comand ,clone'. If its an official variety, we have to fill in the official\_name. Else we assume that its just a breeders clone.

scions_bundles
id INT
code VARCHAR(45)
numb_scions INT
date_scions_harvest DATE
descents_publicid_list VARCHAR(140)
note TEXT
external_use BOOLEAN
variety_id INT
deleted DATETIME
created DATETIME
modified DATETIME
Indexes

Scions Bundles Note

Use the descents\_publicid\_list als comma separated list to track the ancestry

Convar Note

The convar is a virtual property and is created as the following example shows:

FibB44.14A.001

FibB44 -> Code of the crossing (first part is from the mother clone, last part from the father clone)  
17A -> Code of the batch (YY[A-Z] or 000)  
001 -> Code of the variety (### or variety\_name (underscored))

If we have an official variety the convar looks like this:  
SORTE.000.Varitey\_name

Translations

Kreuzung = crossing  
Pollen = Pollen  
Harvest = Ernte  
Impregnated = Befruchtet  
Portions = Portionen  
Batch = Los  
Sprout = Keimling  
Tray = Schale  
Patch = Beet  
Variety = Sorte (früher Klon)  
Plant Breeder = Züchter  
Registration = Zulassung  
Scion = Reiser  
Descent = Herkunft/Abstammung  
Grafted = Veredelt  
Genuine Seedling = Originals sämpling  
Rootstock = Unterlage  
Experiment Site = Versuchsstandort  
Mark = Bonitur (resp. neu auch Muster und Behandlungen)  
Validation Rule = Gültigkeitsregel

Marks

mark_forms
id INT
name VARCHAR(45)
created DATETIME
modified DATETIME
Indexes

marks
id INT
date DATE
author VARCHAR(45)
mark_form_id INT
tree_id INT
variety_id INT(11)
batch_id INT
created DATETIME
modified DATETIME
Indexes

marks\_view

mark_values
id INT
value VARCHAR(255)
exceptional_mark BOOLEAN
mark_form_property_id INT
mark_id INT
created DATETIME
modified DATETIME
Indexes

Mark Values Note

The field exceptional\_mark says, that the mark wasn't planned.

mark_form_fields
id INT
priority INT
mark_form_id INT
mark_form_property_id INT
created DATETIME
modified DATETIME
Indexes

mark_form_properties
id INT
name VARCHAR(45)
validation_rule VARCHAR(255)
field_type VARCHAR(45)
mark_form_property_type_id INT
created DATETIME
modified DATETIME
tree_property BOOLEAN
variety_property BOOLEAN
batch_property BOOLEAN
Indexes

mark_form_property_types
id INT
name VARCHAR(45)
Indexes

Mark Form Property Types Note

These mark form property types serve us to distinguish different types of marks like rating, treatments, samples etc.

mark_scanner_codes
id INT
code VARCHAR(45)
mark_value VARCHAR(255)
mark_form_property_id INT
Indexes