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# Database Models

In this page you can find documentation on how the data is structured and what the convention behind the values are.

It will probably not be up to date all the time, for a bleeding edge documentation refer to the

## Get In Touch

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`models.py` file in the repository.

Foreign keys that link to other database models are stored in the database in a columns called `<model_name>_id` so for the category of a Split it would be `category_id`. In the code you can either use `obj.category` to access the category object, or `obj.category_id` to only get the id of the object.

Decimals are stored in the database with a maximum of ten digits and two decimal places.

There are a couple of integers used that are named for more readability:

## Account Types

Name	Value	Notes
Personal	1	These are the accounts that are owned by the user

Name	Value	Notes
Foreign	2	All accounts that the user interacts with, but are not his own.
System	3	Accounts of this type are hidden from users and only used for housekeeping (initial balances, reconciliation, ...)

## Recurrence Types

Name	Value	Notes
Disabled	0	Can be used to deactivate recurrences that no longer occur.
Weekly	1	
Monthly	2	
Yearly	3	

## Transaction Types

Name	Value	Notes
Deposit	1	A deposit is from a foreign account to a personal account
Withdraw	2	A withdraw is from a personal account to a foreign account
Transfer	3	A transfer involves two personal accounts
System	4	These transactions involve one System account and are used to satisfy double bookkeeping. It's used in initial balances and reconciliation

## Account

Represents the accounts that are part in transactions. There can't be multiple accounts with the same name and account\_type. There currently can only be one system account, this is not enforced in the database.

Attribute	Type	Notes
name	chars (64)	The name of the account
account_type	integer	One of the <a href="#">account types</a>
active	boolean	whether or not the account is shown in forms, etc. Has only effect on personal accounts.
last_modified	datetime	Is set automatically

Attribute	Type	Notes
		and can't be modified
show_on_dashboard	boolean	Whether or not to include the account in the account listing on the dashboard. Only affects personal accounts

## Category

Categories can be used to categorize (duh!) transactions. They are also used during budgeting.

Attribute	Type	Notes
active	boolean	Whether or not the category is shown in

Attribute	Type	Notes
		forms, etc.
name	chars (64)	The name of the category
last_modified	datetime	Is set automatically and can't be modified

## Recurring Transaction

Recurring Transactions are used to remind you of them. They can be transfers, deposits or withdrawals.

Attribute	Type	Notes
title	chars (64)	Title of the recurrence and transaction that will be created of it

Attribute	Type	Notes
amount	decimal	The amount of the transaction
date	date	The date of the next expected occurrence
src	<a href="#"><u>Account</u></a>	The account that will loose the money
dst	<a href="#"><u>Account</u></a>	The account that will gain the money
recurrence	integer	One of the <a href="#"><u>recurrence types</u></a>
transaction_type	integer	One of the <a href="#"><u>transaction types</u></a>
category	<a href="#"><u>Category</u></a>	The category of the resulting



Attribute	Type	Notes
		transactions
last_modified	datetime	Is set automatically and can't be modified

## Transaction

Attribute	Type	Notes
title	chars (64)	Title of the transaction
date	date	the date when the transaction happened
recurrence	<a href="#">Recurring Transaction</a>	<div>NULL</div> if the transaction is not associated with a

Attribute	Type	Notes
		recurring transaction
transaction_type	integer	One of the <a href="#">transaction types</a>
notes	Text	
last_modified	datetime	Is set automatically and can't be modified

## Split

Attribute	Type	Notes
title	chars (64)	Title of the split, if the transaction is a simple

Attribute	Type	Notes
		transaction, it should match the title of the transaction
amount	decimal	The amount of the transaction. A positive amount is a deposit into the account, a negative is a withdrawal from the account
date	date	date the transaction was registered in the source account

Attribute	Type	Notes
account	<u>Account</u>	The account where the amount is added or deducted from.
opposing_account	<u>Account</u>	The opposing account
transaction	<u>Transaction</u>	The transaction this split belongs to
category	<u>Category</u>	Optional. Can be used to categorize transactions and to assign budgets to them.

Attribute	Type	Notes
last_modified	datetime	Is set automatically and can't be modified