DeFi Portfolio

Problem definition

Missing functionalities of the DeFi App:

- Clear listing of rewards and commissions.
- Different tables
- Different plots
- Export function of transactions / rewards / commissions
- Analysis of individual pools
- Display and export in fiat (to the corresponding timestamp)

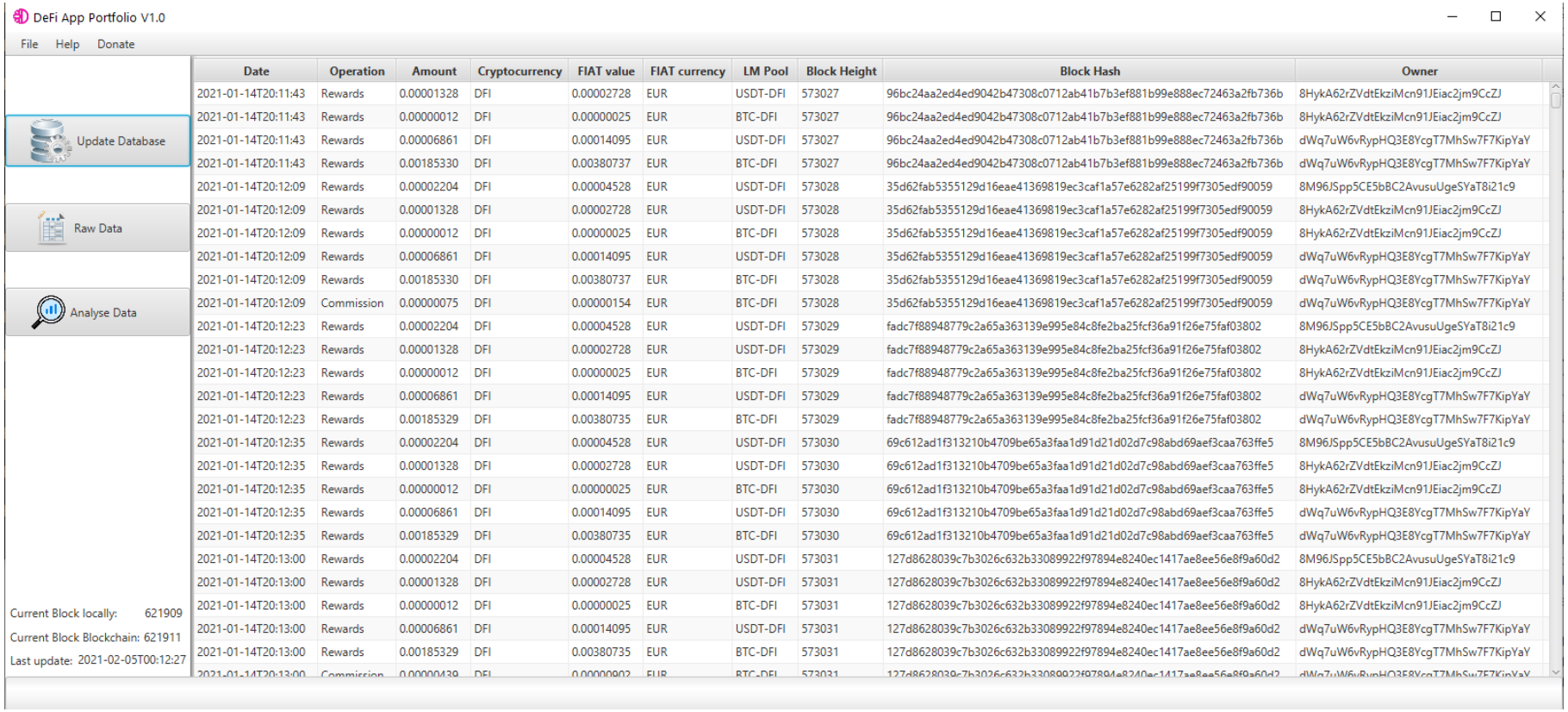
Solution approach

Desktop Application

- Connection with RPC server (defid.exe)
- Reading all relevant data from the wallet (even if the wallet is encrypted)
- Retrieval of the respective daily rates via the Coingecko API
- Preparation of the data
- Creation of tables and plots

Function: Update Database (RPC Server - defid.exe)

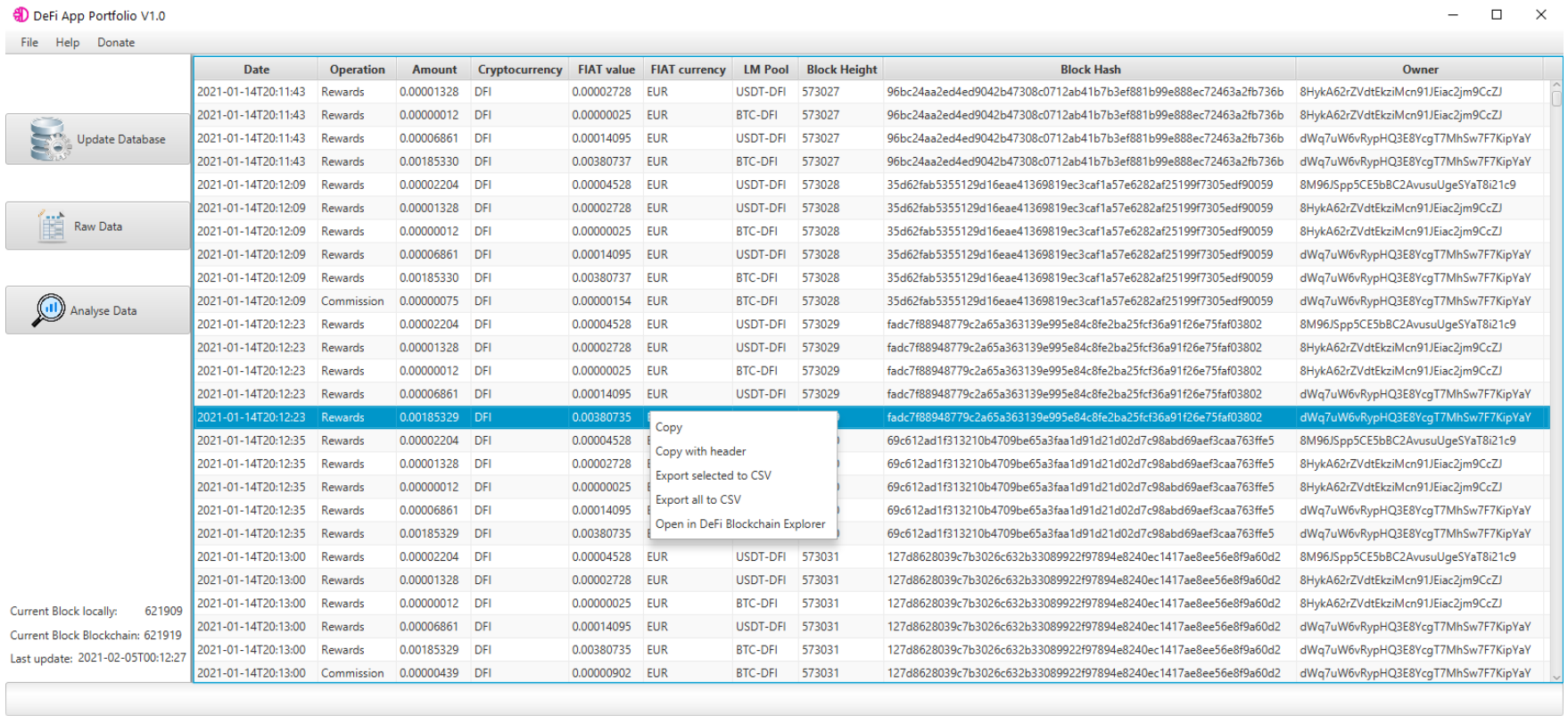
- Transactions, rewards and commissions are read and stored locally
- Raw data table and block data are updated
- Current block height is periodically queried and updated on the GUI



Date	Operation	Amount	Cryptocurrency	FIAT value	FIAT currency	LM Pool	Block Height	Block Hash	Owner
2021-01-14T20:11:43	Rewards	0.00001328	DFI	0.00002728	EUR	USDT-DFI	573027	96bc24aa2ed4ed9042b47308c0712ab41b7b3ef881b99e888ec72463a2fb736b	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:11:43	Rewards	0.00000012	DFI	0.00000025	EUR	BTC-DFI	573027	96bc24aa2ed4ed9042b47308c0712ab41b7b3ef881b99e888ec72463a2fb736b	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:11:43	Rewards	0.00006861	DFI	0.00014095	EUR	USDT-DFI	573027	96bc24aa2ed4ed9042b47308c0712ab41b7b3ef881b99e888ec72463a2fb736b	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:11:43	Rewards	0.00185330	DFI	0.00380737	EUR	BTC-DFI	573027	96bc24aa2ed4ed9042b47308c0712ab41b7b3ef881b99e888ec72463a2fb736b	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:09	Rewards	0.00002204	DFI	0.00004528	EUR	USDT-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	8M96JSpp5CE5bBC2AvusuUgeSYaT8i21c9
2021-01-14T20:12:09	Rewards	0.00001328	DFI	0.00002728	EUR	USDT-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:09	Rewards	0.00000012	DFI	0.00000025	EUR	BTC-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:09	Rewards	0.00006861	DFI	0.00014095	EUR	USDT-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:09	Rewards	0.00185330	DFI	0.00380737	EUR	BTC-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:09	Commission	0.00000075	DFI	0.00000154	EUR	BTC-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:23	Rewards	0.00002204	DFI	0.00004528	EUR	USDT-DFI	573029	fadc7f88948779c2a65a363139e995e84c8fe2ba25fcf36a91f26e75faf03802	8M96JSpp5CE5bBC2AvusuUgeSYaT8i21c9
2021-01-14T20:12:23	Rewards	0.00001328	DFI	0.00002728	EUR	USDT-DFI	573029	fadc7f88948779c2a65a363139e995e84c8fe2ba25fcf36a91f26e75faf03802	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:23	Rewards	0.00000012	DFI	0.00000025	EUR	BTC-DFI	573029	fadc7f88948779c2a65a363139e995e84c8fe2ba25fcf36a91f26e75faf03802	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:23	Rewards	0.00006861	DFI	0.00014095	EUR	USDT-DFI	573029	fadc7f88948779c2a65a363139e995e84c8fe2ba25fcf36a91f26e75faf03802	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:23	Rewards	0.00185329	DFI	0.00380735	EUR	BTC-DFI	573029	fadc7f88948779c2a65a363139e995e84c8fe2ba25fcf36a91f26e75faf03802	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:35	Rewards	0.00002204	DFI	0.00004528	EUR	USDT-DFI	573030	69c612ad1f313210b4709be65a3faa1d91d21d02d7c98abd69aef3caa763ffe5	8M96JSpp5CE5bBC2AvusuUgeSYaT8i21c9
2021-01-14T20:12:35	Rewards	0.00001328	DFI	0.00002728	EUR	USDT-DFI	573030	69c612ad1f313210b4709be65a3faa1d91d21d02d7c98abd69aef3caa763ffe5	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:35	Rewards	0.00000012	DFI	0.00000025	EUR	BTC-DFI	573030	69c612ad1f313210b4709be65a3faa1d91d21d02d7c98abd69aef3caa763ffe5	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:35	Rewards	0.00006861	DFI	0.00014095	EUR	USDT-DFI	573030	69c612ad1f313210b4709be65a3faa1d91d21d02d7c98abd69aef3caa763ffe5	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:35	Rewards	0.00185329	DFI	0.00380735	EUR	BTC-DFI	573030	69c612ad1f313210b4709be65a3faa1d91d21d02d7c98abd69aef3caa763ffe5	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:13:00	Rewards	0.00002204	DFI	0.00004528	EUR	USDT-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	8M96JSpp5CE5bBC2AvusuUgeSYaT8i21c9
2021-01-14T20:13:00	Rewards	0.00001328	DFI	0.00002728	EUR	USDT-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:13:00	Rewards	0.00000012	DFI	0.00000025	EUR	BTC-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:13:00	Rewards	0.00006861	DFI	0.00014095	EUR	USDT-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:13:00	Rewards	0.00185329	DFI	0.00380735	EUR	BTC-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:13:00	Commission	0.00000439	DFI	0.00000902	EUR	BTC-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY

Function: Right click on all tables

- Copy selected
- Copy selected with header
- Export selected to CSV
- Export all to CSV
- Open Block Hash in DeFi Blockhain Explorer



Date	Operation	Amount	Cryptocurrency	FIAT value	FIAT currency	LM Pool	Block Height	Block Hash	Owner
2021-01-14T20:11:43	Rewards	0.00001328	DFI	0.00002728	EUR	USDT-DFI	573027	96bc24aa2ed4ed9042b47308c0712ab41b7b3ef881b99e888ec72463a2fb736b	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:11:43	Rewards	0.00000012	DFI	0.00000025	EUR	BTC-DFI	573027	96bc24aa2ed4ed9042b47308c0712ab41b7b3ef881b99e888ec72463a2fb736b	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:11:43	Rewards	0.00006861	DFI	0.00014095	EUR	USDT-DFI	573027	96bc24aa2ed4ed9042b47308c0712ab41b7b3ef881b99e888ec72463a2fb736b	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:11:43	Rewards	0.00185330	DFI	0.00380737	EUR	BTC-DFI	573027	96bc24aa2ed4ed9042b47308c0712ab41b7b3ef881b99e888ec72463a2fb736b	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:09	Rewards	0.00002204	DFI	0.00004528	EUR	USDT-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	8M96JSpp5CE5bBC2AvusuUgeSYaT8i21c9
2021-01-14T20:12:09	Rewards	0.00001328	DFI	0.00002728	EUR	USDT-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:09	Rewards	0.00000012	DFI	0.00000025	EUR	BTC-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:09	Rewards	0.00006861	DFI	0.00014095	EUR	USDT-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:09	Rewards	0.00185330	DFI	0.00380737	EUR	BTC-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:09	Commission	0.00000075	DFI	0.00000154	EUR	BTC-DFI	573028	35d62fab5355129d16eae41369819ec3caf1a57e6282af25199f7305edf90059	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:23	Rewards	0.00002204	DFI	0.00004528	EUR	USDT-DFI	573029	fadc7f88948779c2a65a363139e995e84c8fe2ba25fcf36a91f26e75faf03802	8M96JSpp5CE5bBC2AvusuUgeSYaT8i21c9
2021-01-14T20:12:23	Rewards	0.00001328	DFI	0.00002728	EUR	USDT-DFI	573029	fadc7f88948779c2a65a363139e995e84c8fe2ba25fcf36a91f26e75faf03802	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:23	Rewards	0.00000012	DFI	0.00000025	EUR	BTC-DFI	573029	fadc7f88948779c2a65a363139e995e84c8fe2ba25fcf36a91f26e75faf03802	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:23	Rewards	0.00006861	DFI	0.00014095	EUR	USDT-DFI	573029	fadc7f88948779c2a65a363139e995e84c8fe2ba25fcf36a91f26e75faf03802	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:23	Rewards	0.00185329	DFI	0.00380735	EUR	BTC-DFI	573029	fadc7f88948779c2a65a363139e995e84c8fe2ba25fcf36a91f26e75faf03802	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:35	Rewards	0.00002204	DFI	0.00004528	EUR	USDT-DFI	573030	69c612ad1f313210b4709be65a3faa1d91d21d02d7c98abd69aef3caa763ffe5	8M96JSpp5CE5bBC2AvusuUgeSYaT8i21c9
2021-01-14T20:12:35	Rewards	0.00001328	DFI	0.00002728	EUR	USDT-DFI	573030	69c612ad1f313210b4709be65a3faa1d91d21d02d7c98abd69aef3caa763ffe5	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:35	Rewards	0.00000012	DFI	0.00000025	EUR	BTC-DFI	573030	69c612ad1f313210b4709be65a3faa1d91d21d02d7c98abd69aef3caa763ffe5	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:12:35	Rewards	0.00006861	DFI	0.00014095	EUR	USDT-DFI	573030	69c612ad1f313210b4709be65a3faa1d91d21d02d7c98abd69aef3caa763ffe5	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:12:35	Rewards	0.00185329	DFI	0.00380735	EUR	BTC-DFI	573030	69c612ad1f313210b4709be65a3faa1d91d21d02d7c98abd69aef3caa763ffe5	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:13:00	Rewards	0.00002204	DFI	0.00004528	EUR	USDT-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	8M96JSpp5CE5bBC2AvusuUgeSYaT8i21c9
2021-01-14T20:13:00	Rewards	0.00001328	DFI	0.00002728	EUR	USDT-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:13:00	Rewards	0.00000012	DFI	0.00000025	EUR	BTC-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	8HykA62rZVdtEkziMcn91JEiac2jm9CcZJ
2021-01-14T20:13:00	Rewards	0.00006861	DFI	0.00014095	EUR	USDT-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:13:00	Rewards	0.00185329	DFI	0.00380735	EUR	BTC-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY
2021-01-14T20:13:00	Commission	0.00000439	DFI	0.00000902	EUR	BTC-DFI	573031	127d8628039c7b3026c632b33089922f97894e8240ec1417ae8ee56e8f9a60d2	dWq7uW6vRypHQ3E8YcgT7MhSw7F7KipYaY

Analyse Data

- Visualisazion of the data in plot and table
- Specifications:
  - Time range
  - Intervall (Daily, Weekly, Monthly, Yearly)
  - Plot type (Individual, cumulated)
  - Pool pair (BTC-DFI, ETH-DFI, …)
  - Currency (Coin, Fiat)

DeFi App Portfolio V1.0

File Help Donate

Update Database

Raw Data

Analyse Data

Start date 07.12.2020

End date 05.02.2021

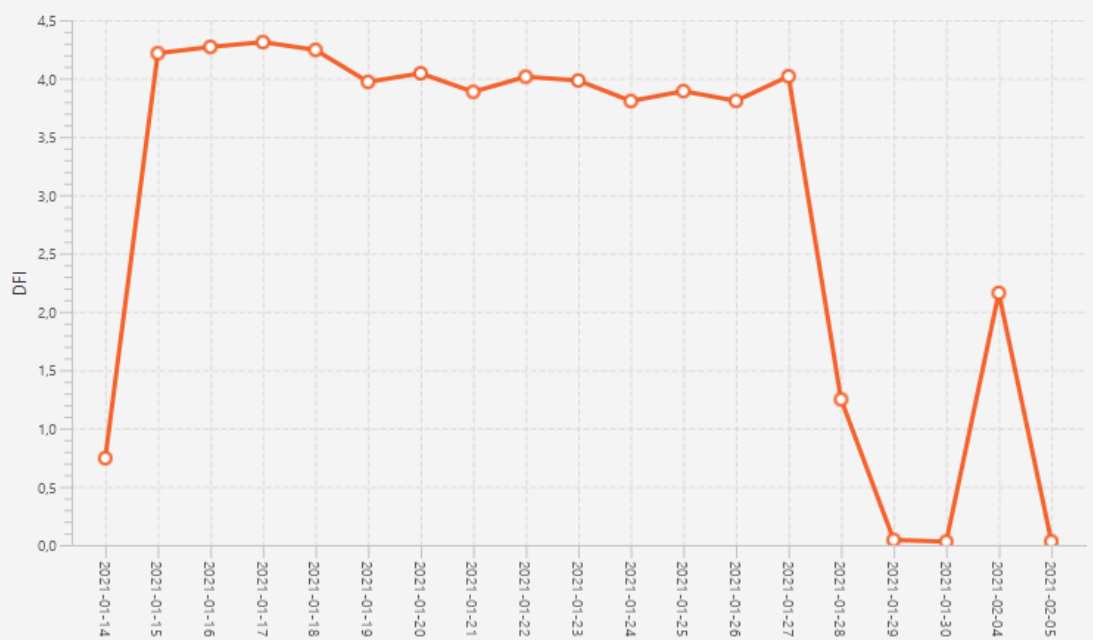
Daily

Individual

BTC-DFI

Coin

Rewards Commissions Overview



Date	Pair	Rewards (EUR)	Commissions (EUR)
2021-01-14	BTC-DFI	0.74410799	1.52867665
2021-01-15	BTC-DFI	4.21675510	9.62223869
2021-01-16	BTC-DFI	4.27062744	9.31945255
2021-01-17	BTC-DFI	4.31214061	9.35683441
2021-01-18	BTC-DFI	4.24503694	9.14446977
2021-01-19	BTC-DFI	3.97074257	8.70254613
2021-01-20	BTC-DFI	4.04433186	8.86593472
2021-01-21	BTC-DFI	3.88565597	8.66151482
2021-01-22	BTC-DFI	4.01507978	7.72166229
2021-01-23	BTC-DFI	3.98288613	8.29686274
2021-01-24	BTC-DFI	3.80684517	7.74135013
2021-01-25	BTC-DFI	3.89154564	7.94211091
2021-01-26	BTC-DFI	3.80817749	7.86671864
2021-01-27	BTC-DFI	4.01898503	8.37780893
2021-01-28	BTC-DFI	1.24819027	2.43607929
2021-01-29	BTC-DFI	0.04351932	0.09031638
2021-01-30	BTC-DFI	0.02911236	0.06192627
2021-02-04	BTC-DFI	2.16135338	5.35930519
2021-02-05	BTC-DFI	0.03131035	0.07840791

Current Block locally: 621909

Current Block Blockchain: 621923

Last update: 2021-02-05T00:12:27

DeFi App Portfolio V1.0

File Help Donate

Update Database

Raw Data

Analyse Data

Start date 07.12.2020

End date 05.02.2021

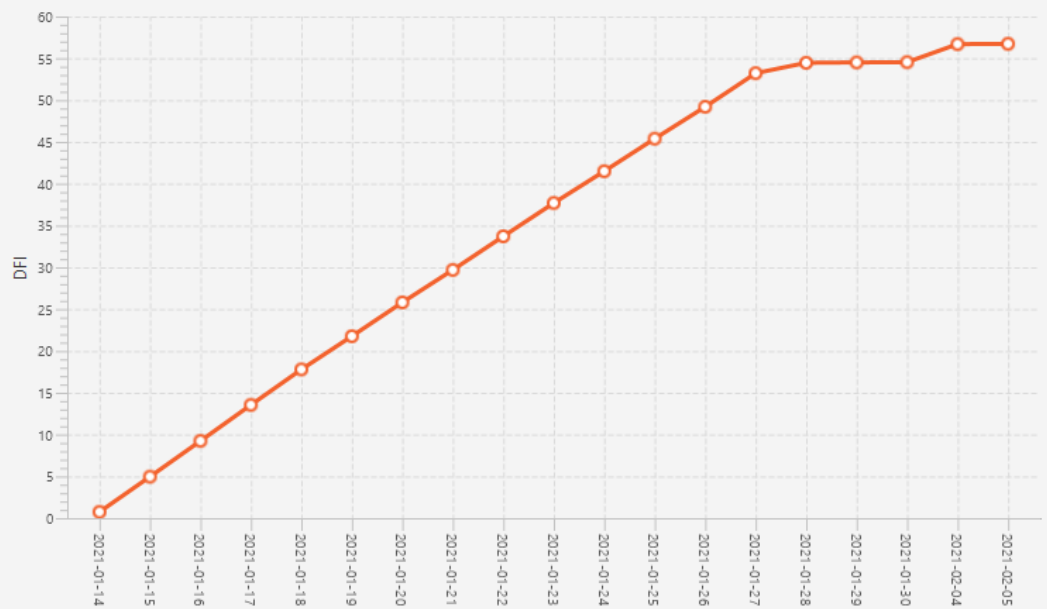
Daily

Cumula...

BTC-DFI

Coin

Rewards Commissions Overview



Date	Pair	Rewards (EUR)	Commissions (EUR)
2021-01-14	BTC-DFI	0.74410799	1.52867665
2021-01-15	BTC-DFI	4.21675510	9.62223869
2021-01-16	BTC-DFI	4.27062744	9.31945255
2021-01-17	BTC-DFI	4.31214061	9.35683441
2021-01-18	BTC-DFI	4.24503694	9.14446977
2021-01-19	BTC-DFI	3.97074257	8.70254613
2021-01-20	BTC-DFI	4.04433186	8.86593472
2021-01-21	BTC-DFI	3.88565597	8.66151482
2021-01-22	BTC-DFI	4.01507978	7.72166229
2021-01-23	BTC-DFI	3.98288613	8.29686274
2021-01-24	BTC-DFI	3.80684517	7.74135013
2021-01-25	BTC-DFI	3.89154564	7.94211091
2021-01-26	BTC-DFI	3.80817749	7.86671864
2021-01-27	BTC-DFI	4.01898503	8.37780893
2021-01-28	BTC-DFI	1.24819027	2.43607929
2021-01-29	BTC-DFI	0.04351932	0.09031638
2021-01-30	BTC-DFI	0.02911236	0.06192627
2021-02-04	BTC-DFI	2.16135338	5.35930519
2021-02-05	BTC-DFI	0.03131035	0.07840791

Current Block locally: 621909

Current Block Blockchain: 621923

Last update: 2021-02-05T00:12:27

DeFi App Portfolio V1.0

File Help Donate

Update Database

Raw Data

Analyse Data

Start date 07.12.2020

End date 05.02.2021

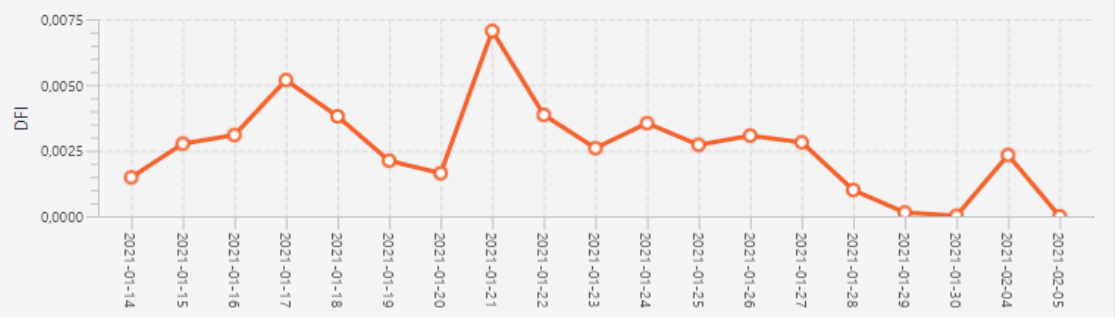
Daily

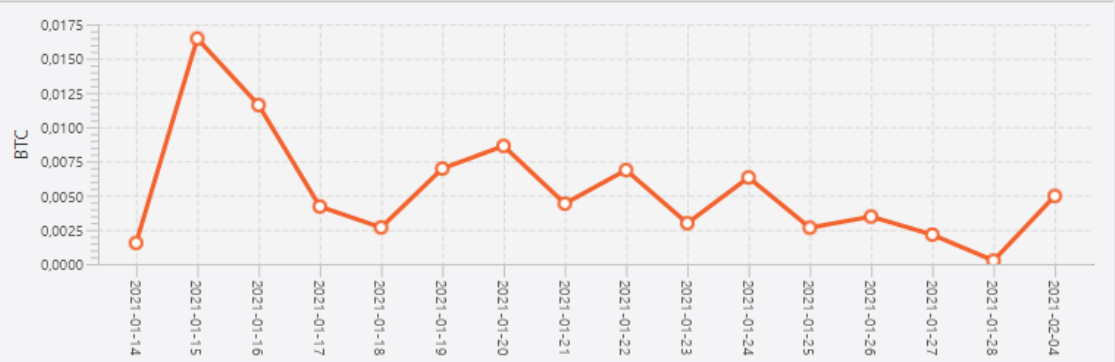
Individual

BTC-DFI

Coin

Rewards Commissions Overview





Date	Pair	Total (EUR)	DFI	BTC
2021-01-14	BTC-DFI	0.00148282	0.00148045	0.00153985
2021-01-15	BTC-DFI	0.00303474	0.00276357	0.01646718
2021-01-16	BTC-DFI	0.00322869	0.00309382	0.01161321
2021-01-17	BTC-DFI	0.00520348	0.00518582	0.00420188
2021-01-18	BTC-DFI	0.00381425	0.00380712	0.00266943
2021-01-19	BTC-DFI	0.00216242	0.00211384	0.00696964
2021-01-20	BTC-DFI	0.00171475	0.00164037	0.00862463
2021-01-21	BTC-DFI	0.00707812	0.00705864	0.00441385
2021-01-22	BTC-DFI	0.00390568	0.00385861	0.00686087
2021-01-23	BTC-DFI	0.00260305	0.00259418	0.00297784
2021-01-24	BTC-DFI	0.00358458	0.00354462	0.00632169
2021-01-25	BTC-DFI	0.00272569	0.00271866	0.00265232
2021-01-26	BTC-DFI	0.00308182	0.00306980	0.00346636
2021-01-27	BTC-DFI	0.00281876	0.00281417	0.00214294
2021-01-28	BTC-DFI	0.00099863	0.00099857	0.00025154
2021-01-29	BTC-DFI	0.00014384	0.00014384	0.00000000
2021-01-30	BTC-DFI	0.00002081	0.00002081	0.00000000
2021-02-04	BTC-DFI	0.00235750	0.00233277	0.00497280
2021-02-05	BTC-DFI	0.00000170	0.00000170	0.00000000

Current Block locally: 621909

Current Block Blockchain: 621924

Last update: 2021-02-05T00:12:27

DeFi App Portfolio V1.0

File Help Donate

Update Database

Raw Data

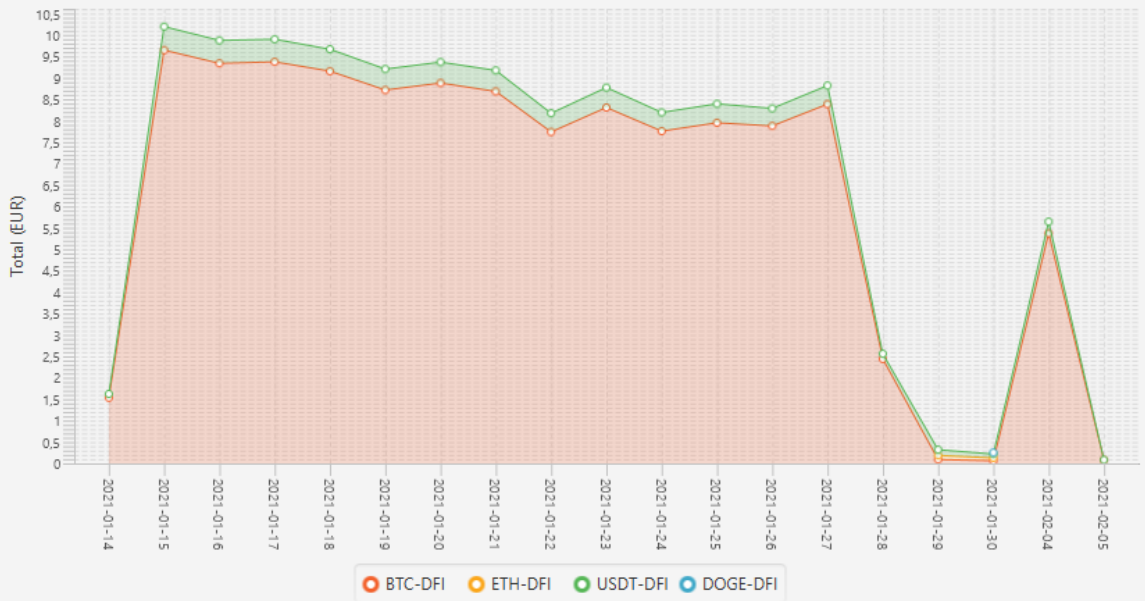
Analyse Data

Start date 07.12.2020

End date 05.02.2021

Daily

Rewards Commissions Overview

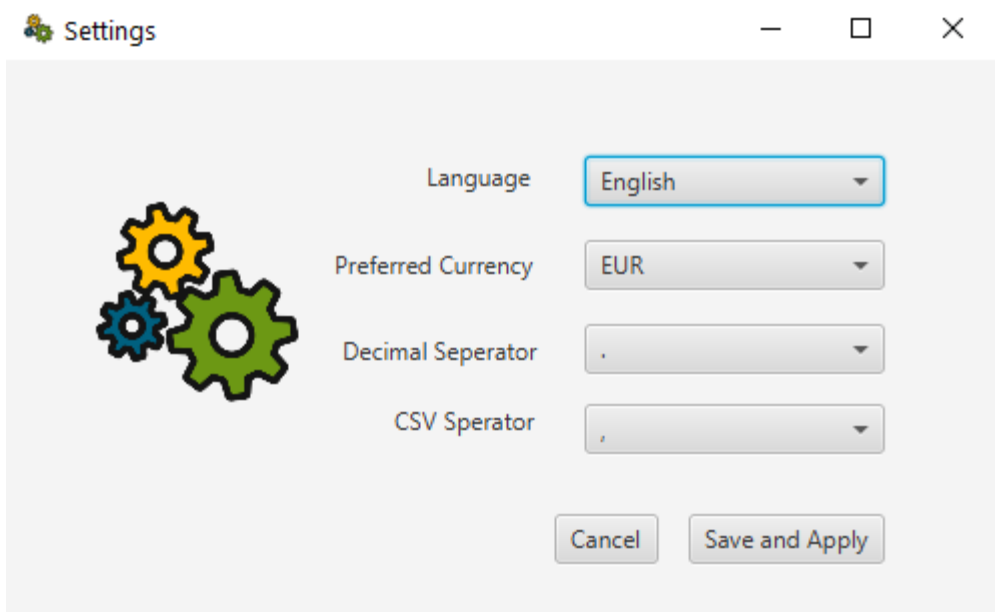


Date	Pair	Total (EUR)	Rewards (EUR)	Commissions (EUR)
2021-01-14	BTC-DFI	1.53325790	1.52867665	0.00458125
2021-01-14	USDT-DFI	0.08720039	0.08495725	0.00224314
2021-01-15	BTC-DFI	9.64503835	9.62223869	0.02279966
2021-01-15	USDT-DFI	0.54912158	0.53787665	0.01124492
2021-01-16	BTC-DFI	9.33781415	9.31945255	0.01836160
2021-01-16	USDT-DFI	0.53404741	0.52845971	0.00558771
2021-01-17	BTC-DFI	9.37228993	9.35683441	0.01545552
2021-01-17	USDT-DFI	0.52716566	0.52370933	0.00345632
2021-01-18	BTC-DFI	9.15533882	9.14446977	0.01086905
2021-01-18	USDT-DFI	0.51040827	0.50819975	0.00220852
2021-01-19	BTC-DFI	8.71415170	8.70254613	0.01160556
2021-01-19	USDT-DFI	0.48919728	0.48101902	0.00817826
2021-01-20	BTC-DFI	8.87815527	8.86593472	0.01222056
2021-01-20	USDT-DFI	0.48717899	0.48119204	0.00598696
2021-01-21	BTC-DFI	8.68163731	8.66151482	0.02012249
2021-01-21	USDT-DFI	0.49008866	0.47614972	0.01393894
2021-01-22	BTC-DFI	7.73590849	7.72166229	0.01424619
2021-01-22	USDT-DFI	0.43548866	0.42953308	0.00595558
2021-01-23	BTC-DFI	8.30525923	8.29686274	0.00839649
2021-01-23	USDT-DFI	0.46684140	0.46376427	0.00307713
2021-01-24	BTC-DFI	7.75487182	7.74135013	0.01352170

Current Block locally: 621909

Current Block Blockchain: 621927

Last update: 2021-02-05T00:12:27



Language: English (planned German …etc.)
Preffered currency: EUR, USD, CHF
Decimal seperator: dot, comma
CSV seperator: comma, semicolon

Outlook and Ideas

- Perfomance upgrade (Change to python to increase data processing)
- Time course of the liquidity tokens
- Time history of rewards/liquidity tokens (kind of yield)
- Import CSV DeFi App (If available)
- Cake Import / Comparison / Collected Plot / Table
- Export for Cointracking ... etc.
- Export wallet data to google sheet of Dennis Lach.
- Hopefully more user feedback