

Get rates from API layer

```
In [9]: from main import get_rates
rates_to_upload = get_rates(base='EUR', start_date='2022-01-01', end_date='2022-05-31')
200
```

Create a table in GCP with the columns required

```
In [11]: from main import create_table_gcp
from bigquery_functions import delete_table

delete_table('qntq-recruitment.data.de_currency_rates')
rates_table = create_table_gcp(table_name="de_currency_rates", data_fields=rates_to_upload.to_dict(orient='records'))

Deleted table qntq-recruitment.data.de_currency_rates
qntq-recruitment.data.de_currency_rates
Created table qntq-recruitment.data.de_currency_rates
```

Batch upload of all the currency conversion rates

Note: Retry this until 404 error is resolved

```
In [13]: from bigquery_functions import batch_upload
batch_upload(rates_table, rates_to_upload.to_dict(orient='records'))

New rows have been added.
```

Strategy for keeping the big query data uptodate

1. Get the latest date from the table
2. Re-run API layer with the above date as start date and today's date as end date
3. Append the table with the new data

```
In [14]: from main import find_last_date_table

last_date = find_last_date_table(rates_table)
print("Rates uploaded until %s" % (last_date))

Rates uploaded until 2022-05-31
```

```
In [15]: from time import sleep
from main import date_today

new_rates_to_upload = get_rates(base='EUR', start_date=last_date, end_date=date_today)
sleep(10) # Sleep to prevent 404 error from batch_upload
batch_upload(rates_table, new_rates_to_upload.to_dict(orient='records'))

200
New rows have been added.
```

```
In [16]: from main import query_print_table

last_date = find_last_date_table(rates_table)
print("Rates updated until %s" % (last_date))
print(query_print_table(rates_table))
```

Rates updated until 2022-06-19

	DATE	BASE	AED	AFN	ALL	AMD	ANG
\							
0	2022-01-01	EUR	4.176782	117.979297	121.277018	546.096265	2.049808
1	2022-01-02	EUR	4.177235	117.993578	121.292102	546.164583	2.050064
2	2022-01-03	EUR	4.150540	117.235943	120.060423	544.187906	2.037327
3	2022-01-04	EUR	4.144514	118.362513	119.463303	544.201872	2.032711
4	2022-01-05	EUR	4.155551	119.074390	120.943795	546.626133	2.039588
..
166	2022-06-15	EUR	3.840543	93.574145	119.489826	443.767194	1.883967
167	2022-06-16	EUR	3.873840	94.242583	121.482911	450.895564	1.901583
168	2022-06-17	EUR	3.854981	93.408884	119.699740	446.370858	1.891079
169	2022-06-18	EUR	3.855047	93.867237	119.808183	445.064659	1.895338
170	2022-06-19	EUR	3.855047	93.867237	119.808183	445.064659	1.895338

	AOA	ARS	AUD	...	XAU	XCD	XDR	\
0	626.101357	116.773434	1.564485	...	0.000622	3.073193	0.812663	
1	626.179720	116.759289	1.565111	...	0.000622	3.073577	0.812765	
2	626.240367	116.341226	1.570112	...	0.000626	3.053832	0.807706	
3	624.456835	116.336834	1.558361	...	0.000622	3.049405	0.805117	
4	625.241974	116.644985	1.566636	...	0.000625	3.057520	0.810347	
..	
166	455.073565	128.269729	1.490166	...	0.000570	2.825748	0.786412	
167	457.733881	129.639357	1.498011	...	0.000570	2.850249	0.792250	
168	455.412029	128.957990	1.516924	...	0.000571	2.836418	0.789261	
169	455.412029	129.265183	1.514260	...	0.000571	2.836418	0.791024	
170	455.412029	129.265183	1.514260	...	0.000571	2.836418	0.791024	

	XOF	XPF	YER	ZAR	ZMK	ZMW
\						
0	658.979869	120.367257	284.571056	18.138658	10235.677475	18.948740
1	659.057648	120.382047	284.605769	18.156679	10236.956907	18.951110
2	653.688869	120.061188	282.778231	17.937892	10171.194552	18.841523
3	654.995150	119.745484	282.367813	18.096101	10156.445865	18.864138
4	655.616678	119.413738	283.119082	17.981505	10183.461167	18.973170
..
166	654.140099	119.831742	261.720323	16.472471	9411.528953	17.691645
167	665.239987	120.859905	263.981709	16.888574	9493.134107	17.858612
168	653.338497	119.778071	262.646186	16.827531	9447.066341	17.811508
169	655.728131	119.778071	262.646186	16.822094	9447.066341	17.851969
170	655.728131	119.778071	262.646186	16.822094	9447.066341	17.851969

	ZWL
0	366.160363
1	366.206170
2	363.853655
3	363.326122
4	364.293086
..	...
166	336.678214
167	339.597506
168	337.949417
169	337.949417
170	337.949417

[171 rows x 170 columns]

None