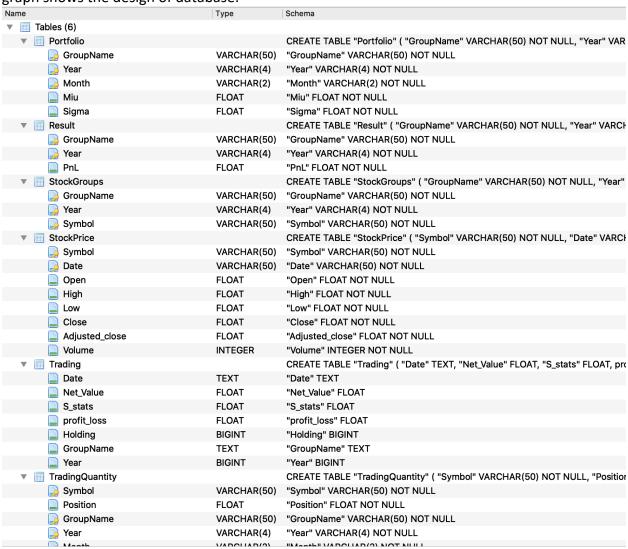
#### Readme File

This project aims at performing a full integrated quantitative trading module including building relational database, calibrating model parameters, back testing, trading simulation and frontend exhibition. We have three Python files that contains the main logic of the model. We also have several HTML files that create the dashboard.

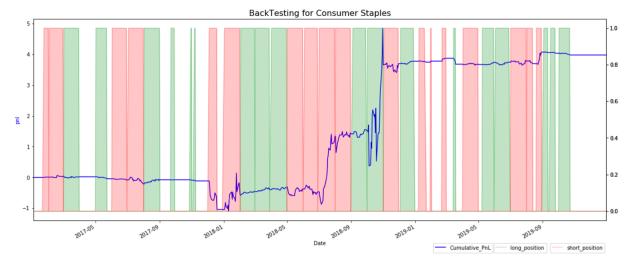
#### Python File 1: Database.py

This file contains all the functions about building relational database, include downloading data from website, model calibration, creating table and saving data to database. The following graph shows the design of database:



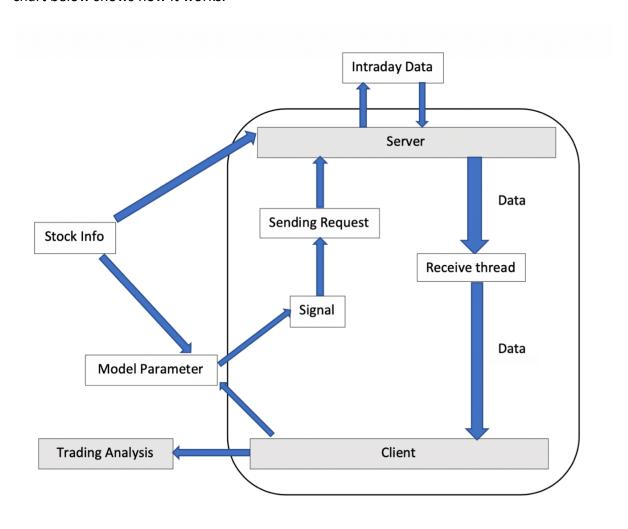
### Python File 2: BackTesting.py

This file contains the source code of back-testing and visualization of the trading strategy result. The following chart shows one of the results:



# Python File 3: Integrate.py

This file contains the source code for server client communications and trading simulation, the chart below shows how it works.



## **HTML Files: Create Dashboard to show results**

roupName	Profit	Profit_Trades	Loss_Trades
ommunications	US\$4.43	246	218
onsumer Discretionary	US\$2.14	283	242
onsumer Staples	US\$3.98	261	258
nergy	US\$2.42	297	258
inancials	US\$3.17	333	286
ealth Care	US\$1.41	217	216
Industrials  Materials  Mix  Technology	US\$-1.45	262	227
	US\$-0.02	277	249
	US\$-13.40	281	278
	US\$1.29	271	224
tilities	US\$0.16	260	243
iii	onsumer Discretionary onsumer Staples energy enancials ealth Care dustrials aterials ix	pommunications         US\$4.43           ponsumer Discretionary         US\$2.14           ponsumer Staples         US\$3.98           pergy         US\$2.42           pancials         US\$3.17           pealth Care         US\$1.41           published         US\$-1.45           paterials         US\$-0.02           paterials         US\$-13.40           permonentials         US\$1.29	Description       US\$4.43       246         Insumer Discretionary       US\$2.14       283         Insumer Staples       US\$3.98       261         Intergy       US\$2.42       297         Interpretable       US\$3.17       333         Interpretable       US\$1.41       217         Interpretable       US\$-1.45       262         Interpretable       US\$-0.02       277         Interpretable       US\$-13.40       281         Interpretable       US\$1.29       271