Hi I'm Pedro Freire and I'm building a python package for investment analysis called stablepy. Until now I only have one module called return\_metrics.py. I already have documentation and created a test suite for my package using pytest.

Great! It sounds like you are well on your way to creating a Python package. Here are some additional steps you may want to consider as you continue to develop your package:

1. Use a version control system like Git to track changes to your code. This will make it easier to collaborate with other developers and revert to previous versions of your code if necessary.
2. Consider using a documentation tool like Sphinx to generate documentation for your package. This will make it easier to keep your documentation up-to-date and ensure that it is consistent with the rest of your package.
3. Consider using a package management tool like pip to manage the installation and distribution of your package. This will make it easier for other users to install and use your package.
4. Consider using a continuous integration (CI) tool like Travis CI to automatically run your tests and check for code quality. This will help ensure that your package is of high quality and is easy to maintain.

I hope this information is helpful! If you have any other questions, don't hesitate to ask.

Thanks, I'm already using git and Sphinx. How can I execute the tests using pytest?

To run your tests using pytest, you can use the **pytest** command followed by the name of your test file or directory. For example, if you have a file called **test\_return\_metrics.py** that contains your tests, you can run it from the command line by navigating to the directory where the file is located and running the following command:

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pytest test\_return\_metrics.py

Alternatively, if you have multiple test files in a directory, you can run all the tests by specifying the directory name instead of the file name:

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pytest tests/

You can also pass additional options to the **pytest** command to control how the tests are run. For example, you can use the **-v** option to run the tests in verbose mode, which will print more detailed output about the tests.

I hope this helps! If you have any other questions, don't hesitate to ask.

Thanks, I now want to use the functions with data I already have, can you help me? My data is in a database called stable.db, which is in other folder called risk-system-db, which is a folder one level before the package folder, how can I import this data?

To access the data in your **stable.db** database from your Python package, you can use the **sqlite3** module to connect to the database and execute SQL queries. Here is an example of how you could do this:

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import sqlite3 def get\_data(): # Connect to the database conn = sqlite3.connect('../risk-system-db/stable.db') # Create a cursor c = conn.cursor() # Execute a SELECT query c.execute('SELECT \* FROM data') # Fetch the results rows = c.fetchall() # Close the connection conn.close() return rows

This example assumes that your **stable.db** database is located one level above the directory where your Python package is located. If it is located in a different location, you will need to adjust the path accordingly.

I hope this helps! If you have any other questions, don't hesitate to ask.

It includes tables for storing information about portfolios, assets, asset types, portfolio assets, stocks, bonds, portfolio transactions, portfolio fees, portfolio goals, and market indices. The stock\_history and bond\_history tables include columns for storing historical data for stocks and bonds, and the portfolio\_transactions table allows you to store information about the buy and sell transactions that occur in each portfolio. The portfolio\_fees table allows you to store information about the fees and expenses associated with each portfolio, and the portfolio\_goals table allows you to store information about the financial goals and constraints for each portfolio. The market\_indices table allows you to store information about the market indices that you want to use as benchmarks for your portfolio performance. Table: portfolios id (primary key) name date\_created (date the portfolio was created or modified) description (optional) Table: assets id (primary key) name type\_id (foreign key to asset\_types.id) Table: asset\_types id (primary key) name Table: portfolio\_assets id portfolio\_id (foreign key to portfolios.id) asset\_id (foreign key to assets.id) asset\_quantity last\_modified (date of the last asset transaction) Table: stocks asset\_id (primary key, foreign key to assets.id) ticker (unique) exchange sector type industry Table: stock\_history stock\_id (foreign key to stocks.asset\_id) date (date the historical data was recorded) open high low close adjusted\_close volume Table: bonds asset\_id (primary key, foreign key to assets.id) issuer type rating coupon\_type Table: bond\_history bond\_id (foreign key to bonds.asset\_id) date (date the historical data was recorded) coupon maturity yield spread credit\_rating Table: portfolio\_transactions id (primary key) portfolio\_id (foreign key to portfolios.id) asset\_id (foreign key to assets.id) type (enum with values "buy" or "sell") date (date the transaction took place) quantity price description (optional) Table: portfolio\_fees id (primary key) portfolio\_id (foreign key to portfolios.id) fee\_type fee\_amount fee\_date Table: portfolio\_goals id (primary key) portfolio\_id (foreign key to portfolios.id) goal\_type goal\_value goal\_description Table: market\_indices id (primary key) name description This is my database, now I want to create a query that has the last portfolio\_assets entry for each portfolio