

Portfolio SQL Queries

User Queries

UserAdd

"insert into port_users (username, password, email) values (?, ?, ?)"

ValidUser

"select count(*) from port_users where username=? and password=?"

Portfolio Management

AddPortfolio

"insert into portfolios(portID, name, numstocks, username) values (?, ?, ?, ?) "

AddStock

"insert into owned_stocks(symb, count, portID) values (?, ?, ?)"

DeleteStock

"delete from owned_stocks where portID = ? and symb = ? "

AddCashAccount

"insert into accounts(portID, cash) values (?, ?) "

UpdateAccountCash

"update accounts set cash = ? where portID = ?"

UpdateStockNumber

"update owned_stocks set count = ? where portID = ? and symb = ? "

Retrieving Data

GetStockSymb

"select symbol from cs339.stockssymbols order by symbol "

GetPortNameByPortID

"select name from portfolios where portID=?"

GetValue

"select count*close from owned_stocks natural join new_data where timestamp=(select max(timestamp) from new_data where symbol=?) and portid=? and symb=?"

GetCashAmountbyPortID

"select cash from accounts where portID= ?"

GetPortfolioList

"select name from portfolios where username= ? order by portID"

GetPortfolioID

"select portID from portfolios where username = ? order by portID"

GetMyStocks

"select symb from owned_stocks where portID=?"

GetPortData

"select symb, count from owned_stocks where portid = ? order by portid "

GetAllUserStocks

"select distinct symb from owned_stocks natural join portfolios where username = ?"

Verify Data**HasStock**

"select count from owned_stocks where portid = ? and symb = ? "

ValidStock

"select count (*) from cs339.stockssymbols where symbol=?"

Data Statistics**GetCOF(Coefficient of Variance)**

"select stddev(close) / avg(close) from cs339.stocksdaily where symbol = ? and timestamp < ? and timestamp > ?"

GetVAR

"select stddev(close) * stddev(close) from cs339.stocksdaily where symbol = ? and timestamp < ? and timestamp > ?"

GetCOVAR2(Covariance)

Took (Price of X – Avg X) * (Price of Market – Market Avg) / 4

GetMarketAVG(Defined Market as CAN, GOOGL, APPL)

"select avg(close) from cs339.stocksdaily where (symbol = 'ACN' or symbol = 'AAPL' or symbol = 'GOOGL') and timestamp < ? and timestamp > ?", unde

GetBETA

Took COVAR2(stock X ,Market) / GetVAR(Market)