Financial Portfolio Lab: DML and DQL

DML:

Users

INSERT into users (name,password) VALUES (\$username,\$password) DELETE FROM users WHERE name=\$username

Portfolios

INSERT INTO portfolios(username,cash_amnt,name) VALUES (\$username,\$cash_amnt,\$portfolio_name)

UPDATE portfolios SET cash_amnt=\$balance WHERE username=\$username AND name=\$portfolio name

Holdings

INSERT INTO holdings(username,portfolio_name,stock_symbol,shares)

VALUES(\$username,\$portfolio_name,\$symbol,\$shares)

UPDATE holdings SET shares=\$shares WHERE username=\$username AND portfolio_name=\$portfolio_name AND stock_symbol=\$symbol

DELETE FROM holdings WHERE username=\$username AND portfolio_name=\$portfolio_name AND stock_symbol=\$symbol

DailyInfo

INSERT INTO dailyinfo(timestamp,symbol,open,close,high,low,volume) VALUES (\$timestamp,\$stock_symbol,\$open,\$close,\$high,\$low,\$volume)

DQL:

Users

SELECT name, email FROM users ORDER BY name SELECT count(*) FROM users WHERE name=\$username AND password=\$password

Portfolios

SELECT name, cash_amnt FROM portfolios WHERE username=\$username SELECT name FROM portfolios WHERE username=\$username SELECT cash_amnt FROM portfolios WHERE username=\$username AND name=\$portfolio_name

Holdings

SELECT stock_symbol, shares FROM holdings WHERE username=\$username AND portfolio_name=\$portfolio_name

- SELECT distinct stock_symbol FROM holdings WHERE username=\$username
 AND portfolio_name=\$portfolio_name ORDER BY stock_symbol ASC
 SELECT shares FROM holdings WHERE username=\$username AND
 portfolio_name=\$portfolio_name AND stock_symbol=\$symbol
 - DailyInfo
- SELECT timestamp,close FROM (SELECT timestamp,close,symbol FROM cs339.StocksDaily UNION SELECT timestamp,close,symbol FROM dailyinfo) WHERE symbol=\$symbol AND timestamp>=\$from AND timestamp<=\$to order by timestamp,
- SELECT count(*),avg(I.close),stddev(I.close),avg(r.close),stddev(r.close) FROM (SELECT close,symbol,timestamp FROM cs339.StocksDaily union SELECT close,symbol,timestamp FROM dailyinfo) I join (SELECT close,symbol,timestamp FROM cs339.StocksDaily union
- SELECT close,symbol,timestamp FROM dailyinfo) r on l.timestamp= r.timestamp WHERE l.symbol=\$s1 AND r.symbol=\$s2 AND l.timestamp>=\$from AND l.timestamp<=\$to
- SELECT avg((I.close \$mean_f1)*(r.close \$mean_f2)) FROM (SELECT close, symbol, timestamp FROM cs339.StocksDaily union SELECT close, symbol, timestamp FROM dailyinfo) I join (SELECT close, symbol, timestamp FROM cs339.StocksDaily union SELECT close, symbol, timestamp FROM dailyinfo) r on I.timestamp=r.timestamp WHERE I.symbol=\$s1 AND r.symbol=\$s2 AND I.timestamp>=\$from AND I.timestamp<=\$to
- SELECT close FROM (SELECT timestamp,close,symbol FROM cs339.StocksDaily UNION SELECT timestamp,close,symbol FROM dailyinfo) WHERE symbol=\$symbol ORDER BY timestamp
 - Stocks

SELECT distinct symbol FROM cs339.StocksSymbols ORDER BY symbol ASC