```
-- DQL

SELECT COUNT(*) FROM $netID.users WHERE email = $email AND password =
$password AND validation_code IS NULL

SELECT avg($field1), stddev($field1) FROM (SELECT $field1, timestamp,
symbol FROM cs339.stocksdaily UNION SELECT $field1, timestamp, symbol
FROM $netID.newstocksdaily) WHERE symbol=rpad('DIA', 16)

SELECT count(*),avg($field1),stddev($field1) from (SELECT $field1 FROM
$StockPrefix StocksDaily l where symbol='$s1' and l.timestamp>=$from and
l.timestamp<=$to UNION SELECT $field1 FROM $netID.newstocksdaily r WHERE
symbol='$s1' and r.timestamp>=$from and r.timestamp<=$to )

SELECT avg((l.$field1 - $mean_f1)*(r.$field1 - $mean)) from $StockPrefix
StocksDaily l join (SELECT $field1, timestamp FROM $StockPrefix
StocksDaily WHERE symbol=rpad('DIA', 16) UNION SELECT $field1, timestamp
FROM $netID.newstocksdaily WHERE symbol='DIA') r on
l.timestamp=r.timestamp where l.symbol='$s1' and l.timestamp>= $from and
l.timestamp<= $to

SELECT stddev($field) / avg($field) FROM (SELECT $field FROM
".GetStockPrefix()."StocksDaily WHERE symbol='$symbol' AND
timestamp>=$from AND timestamp<=$to UNION  SELECT $field FROM
$netID.newstocksdaily WHERE symbol='$symbol' AND timestamp>=$from AND
timestamp<=$to )

SELECT
count(*),avg(l.$field1),stddev(l.$field1),avg(r.$field2),stddev(r.$field2
) from $StockPrefix StocksDaily l join $StockPrefix StocksDaily r on
l.timestamp= r.timestamp where l.symbol='$s1' and r.symbol='$s2' and
l.timestamp>=$from and l.timestamp<=$to

SELECT avg((l.$field1 - $mean_f1)*(r.$field2 - $mean_f2)) from
$StockPrefix StocksDaily l join $StockPrefix StocksDaily r on
l.timestamp=r.timestamp where l.symbol='$s1' and r.symbol='$s2' and
l.timestamp>= $from and l.timestamp<= $to"

SELECT $joinedFields FROM (select $joinedInnerFields from $StockPrefix
StocksDaily where symbol = '$symbol' and timestamp >= $from and timestamp
<= $to UNION SELECT $joinedInnerFields FROM $netID.newstocksdaily where
symbol = '$symbol' and timestamp >= $from and timestamp <= $to) order by
timestamp

SELECT id, name, cashAccount FROM $netID.portfolios WHERE owner =
$currentUser

SELECT COUNT(*) FROM $netID.users WHERE email = $email AND password =
$password AND validation_code IS NULL

SELECT timestamp, close FROM $StockPrefix StocksDaily WHERE
symbol=rpad(:1,16) AND timestamp BETWEEN :2 AND :3 UNION SELECT
timestamp, close FROM $netID.newstocksdaily WHERE symbol=rpad(:1,16) AND
timestamp BETWEEN :2 AND :3
```

```
SELECT stock, numShares FROM $netID.holdings WHERE portfolioID = $portID

SELECT name, cashAccount FROM $netID.portfolios where id = $portID

SELECT DISTINCT stock FROM $netID.holdings

SELECT numShares FROM $netID.holdings WHERE portfolioID = $portID AND
stock = rpad($symbol, 16)

SELECT numShares FROM $netID.holdings WHERE portfolioID = $portID AND
stock = rpad($symbol, 16)

-- DML

DELETE FROM $netID.portfolios WHERE id = $portID

INSERT INTO $netID.portfolios (name, owner, cashAccount) VALUES ($name,
$currentUser, 0)

UPDATE $netID.users SET validation_code=NULL WHERE validation_code = $key

UPDATE $netID.portfolios SET cashAccount = cashAccount + $amount WHERE id
= $portID

UPDATE $netID.portfolios SET cashAccount = cashAccount - $amount WHERE id
= $portID

INSERT INTO $netID.newstocksdaily (symbol, timestamp, high, low, open,
close, volume) VALUES ($dbuser, $dbpasswd, $sqlString, undef, $stock,
str2time($date), $high, $low, $open, $close, $volume)

INSERT INTO $netID.newstocksdaily (symbol, timestamp, high, low, close,
open, volume) VALUES($symbol, $timestamp, $high, $low, $close, $open,
$volume)

UPDATE $netID.newstocksdaily SET high=$high, low=$low, open=$open,
close=$close, volume=$volume WHERE symbol=$symbol AND
timestamp=$timestamp

DELETE FROM $netID.holdings WHERE portfolioID = $portID AND stock =
$stock

UPDATE $netID.portfolios SET cashAccount = cashAccount + $amount WHERE id
= $portID

DELETE FROM $netID.holdings WHERE portfolioID = $portID AND stock =
rpad($symbol, 16)

UPDATE $netID.holdings SET numShares = numShares + $numShares WHERE
portfolioID = $portID AND stock = rpad(?, 16)

INSERT INTO $netID.holdings (portfolioID, stock, numShares) VALUES
($portID, $stock, $numShares)
```