

# HOWTO: Replace Yahoo Quotes with SQL

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Describes how to replace the Yahoo! Finance quote engine with an SQL quote engine to connect to your SQL database. AST uses ODBC and so it should work with any database. Requires ast-0.2.1 or newer.

**Setup**  
 AST uses unixODBC for database connectivity. You will need to have unixODBC installed prior to installing AST. AST must be compiled (source installation) with SQL support because the binary distribution does not have SQL support enabled. To enable SQL, run `./configure --enable-sql` when compiling AST. You will need to setup a DSN for AST to use with unixODBC (Information on configuring unixODBC).

In AST, login as admin and click on Setup and then System Settings. Under database options you need to enter the Data Source Name (DSN) you configured unixODBC with and the username and password for that DSN. You can enable SQL support for every different type of quote by clicking on the Quote Engines tab and changing from Yahoo! Finance (default) to SQL Database.

The SQL engine in AST looks for some specific tables. You will likely want to create a view on your existing data for ast to use. If any information is not available, you can set it to zero, blank or NULL. You only need to create views for the features you enable (for example, if you want to use Yahoo! for dividend information you don't need to create the dividend quote table). The tables used are described below:

## Views

Below is a list of all of the tables or views AST requires.

Realtime Quotes - `ast_realtime_quote`

## Column

Data Type

Description

symbol

varchar(10)

Ticker symbol of the security

market\_key

varchar(4)

Identifier for the market, set this up in the market configuration in AST

date

timestamp

Quote date

time

varchar(10)

Quote time (text format)

open

float

Open price for the day

high

float

Highest price of the day

low

float

Lowest price of the day

price  
float  
Last trade price

change  
float  
Change between yesterday's close and last price

volume  
integer  
Volume so far today

daily\_avg\_vol  
integer  
Average daily volume for this security (0 if unavailable)

prev\_close  
float  
Closing price yesterday

avg\_50\_dy  
float  
Average price over the last 50 days.

avg\_200\_dy  
float  
Average price over the last 200 days

bid  
float  
Last bid price

bid\_size  
integer  
Size of last bid

ask  
float  
Last ask price

ask\_size  
integer  
Size of last ask

Historical Quotes - ast\_daily\_quote  
Also, ast\_weekly\_quote and ast\_monthly\_quote. All views should have the same format.

Column  
Data Type  
Description

symbol  
varchar(10)  
Ticker symbol of the security

market\_key  
varchar(4)  
Identifier for the market, set this up in the market configuration in AST

date  
timestamp  
Quote date (start of period, e.g. first day of week)

open  
float  
Open price for the day/week/month

high  
float  
Highest price of the day/week/month

low  
float  
Lowest price of the day/week/month

close  
float  
Closing price for the period (day/week/month)

volume  
integer  
Total volume for the period (day/week/month)

adjclose  
float  
Closing price adjusted for splits. For example, if the close was \$20 and then there was a two for one split, the adjclose would be \$10 (close should still be \$20). If the data is already adjusted for splits, set adjclose=close.

Dividend Quotes - ast\_dividend\_quote

Column  
Data Type  
Description

symbol  
varchar(10)  
Ticker symbol of the security

market\_key  
varchar(4)  
Identifier for the market, set this up in the market configuration in AST

date  
timestamp  
Payment date for the dividend

value  
float  
Dividend value (per share)

Extra Information - ast\_detail\_quote

Column  
Data Type  
Description

symbol  
varchar(10)  
Ticker symbol of the security

market\_key  
varchar(4)  
Identifier for the market, set this up in the market configuration in AST

eps  
float  
Earnings Per Share (last year)

short\_ratio  
float  
Current short ratio (set to 0 if not available)

dividends\_per\_share  
float  
Dividends per share last year or current (set to 0 if not available)

one\_yr\_target  
float  
Analyst's 1-year price target (set to 0 if not available)

eps\_est\_cur\_yr  
float  
Earnings Per Share estimate for the current year (set to 0 if not available)

eps\_est\_next\_yr  
float  
Earnings Per Share estimate for next year (set to 0 if not available)

eps\_est\_next\_qtr  
float  
Earnings Per Share for the next quarter (set to 0 if not available)

eps\_peg\_ratio  
float

Price / Earnings Growth ratio (set to 0 if not available)

book\_value

float

Book value (set to 0 if not available)

after\_hours\_change

float

Unused (set to 0)

ebitda

float

EBITDA value (set to 0 if not available)

shares\_outstanding

integer

Total number of shares issues (set to 0 if not available)