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--This is the SQL DDL for Portfolio project B.
--It creates all of the necessary tables for
--the project while identifying keys and restraints
--from the E/R Design.
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--
--
create table users (
--
--This is the table containing all of the users in the system.
--
--
--
--Each user must have a unique email address, checks to see if
--there is an "@" in the name. This will be the user name as well.
--
email varchar(256) not null primary key constraint email_check CHECK (email LIKE '%@%'),
--
--
--Each user must have a password of at least 8 characters
--
password varchar(64) not null constraint passwd_check CHECK (password LIKE '_____%')
);

create table portfolios(
--
--This is the table of every portfolio that is owned by every user.
--
--Each portfolio has an id that uniquely identifies it.
--
id varchar(256) not null primary key,
--
--Each portfolio has an associated cash amount
--
cash_amount double precision not null
);

create table owned_by(
--

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--This table associates users with their portfolios.
--
--
--Each user identified by his name and email, so we include user's
--email in this table
--
user_email varchar(256) not null references users(email),
--
--Each portfolio has an id.
--
portfolio_id varchar(256) not null references portfolios(id)
);

create table holdings (
--
--The holdings_of a portfolio.
--
shares integer not null,
--
stock_symbol varchar(16) not null references cs339.stockssymbols(symbol),
--
--Each portfolio has a unique id.
--
portfolio_id varchar(256) not null references portfolios(id)
);

create table dailies(
--
--This is a list of daily information on every stock.
--
--Each daily uniquely identified by its timestamp
--
time_stamp integer not null primary key,
--
--Each daily has a stock symbol that should reference a not null
--value from stocks
--
stock_symbol varchar(16) not null references cs339.stockssymbols(symbol),
--
--Strike price of the first trade of the day
--
open_value double precision not null,
--
--Highest strike price during the day
--
high_value double precision not null,

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--  
--Lowest strike price during the day  
--  
low_value double precision not null,  
--  
--Strike price of the last trade of the day  
--  
close_value double precision not null,  
--  
--Total number of shares traded during the day  
--  
volume integer not null  
);
```