```sql
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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 (

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--This is the table containing all of the users in the system.

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--

--

--Each user must have a unique email address, checks to see if
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--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
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);


create table owned_by(

--

--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.

--
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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),
```

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--
--Strike prie 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,
--
--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
);
```