Database Design Document CS6441 Database Management Systems

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Create Tables

```
-- create company table
CREATE TABLE company (
        ticker varchar(25) NOT NULL,
        company_name varchar(25),
        street varchar(100),
        city varchar(25),
        state varchar(25),
        zip varchar(25),
        country varchar(25) NOT NULL,
        PRIMARY KEY (ticker)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- create transaction table
CREATE TABLE transactions (
        ticker varchar(25) NOT NULL,
        date date NOT NULL,
        open decimal(10),
        high decimal(25),
        low decimal(25),
        close decimal(10),
        volume int(10),
        PRIMARY KEY (ticker,date)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
ALTER TABLE transactions
        ADD FOREIGN KEY (ticker)
        REFERENCES company (TICKER);
-- create searches table
CREATE TABLE `searches` (
 query` varchar(25) NOT NULL,
 'date_performed' date NOT NULL,
 'username' varchar(25) NOT NULL,
 'results' varchar(400) DEFAULT NULL,
 PRIMARY KEY ('query', 'date_performed', 'username'),
 KEY 'username' ('username'),
 CONSTRAINT `searches_ibfk_1` FOREIGN KEY (`username`) REFERENCES `users` (`username`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

```
-- create users table (MD5 hash for password)
CREATE TABLE `users` (
  `username` varchar(25) NOT NULL,
  `name` varchar(100) NOT NULL,
  `register_date` date NOT NULL,
  `login_date` date DEFAULT NULL,
  `email` varchar(25) NOT NULL,
  `passwd` varchar(32) DEFAULT NULL,
  PRIMARY KEY (`username`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Load Sample Data

-- Loading company info table

INSERT INTO company(ticker, company_name, street, city, state, zip, country) VALUES ('AAPL', 'Apple', '1 Infinite Loop', 'Cupertino', 'CA', '95014', 'United States');

INSERT INTO company_ticker, company_name, street, city, state, zip, country) VALUES ('AMD', 'AMD', '1 Amd Place', 'Sunnyvale', 'CA', '94088', 'United States');

INSERT INTO company(ticker, company_name, street, city, state, zip, country) VALUES ('AMZN', 'Amazon', '410 Terry Avenue North', 'Seattle', 'WA', '98109', 'United States');

INSERT INTO company(ticker, company_name, street, city, state, zip, country) VALUES ('AOL', 'AOL', '770 Broadway', 'New York', 'NY', '10003', 'United States');

INSERT INTO company(ticker, company_name, street, city, state, zip, country) VALUES ('BIDU', 'Baidu.com', 'Shangdi 10th Street', 'Haidian District', 'Beijing', '100085', 'China');

INSERT INTO company(ticker, company_name, street, city, state, zip, country) VALUES ('EMC', 'EMC Corporation', '176 South Street', 'Hopkinton', 'MA', '01748', 'United States');

INSERT INTO company(ticker, company_name, street, city, state, zip, country) VALUES ('FB', 'Facebook', '1 Hacker Way', 'Menlo Park', 'CA', '94025', 'United States');

INSERT INTO company(ticker, company_name, street, city, state, zip, country) VALUES ('GOOG', 'Google', '1600 Amphitheatre Parkway', 'Mountain View', 'CA', '94043', 'United States');

INSERT INTO company(ticker, company_name, street, city, state, zip, country) VALUES ('IBM', 'IBM', '1 New Orchard Road', 'Armonk', 'NY', '10504', 'United States');

INSERT INTO company(ticker, company_name, street, city, state, zip, country) VALUES ('INTC', 'Intel', '2200 Mission College Blvd', 'Santa Clara', 'CA', '95052', 'United States');

-- Sample data for loading into transactions table

INSERT INTO transactions(ticker, date, open, high, low, close, volume) VALUES ('AAPL', '2000-01-03', 105, 122, 87, 26, 23688100);

INSERT INTO transactions(ticker, date, open, high, low, close, volume) VALUES ('AAPL', '2000-02-01', 104, 120, 97, 29, 13741000);

INSERT INTO transactions(ticker, date, open, high, low, close, volume) VALUES ('AAPL', '2000-03-01', 119, 150, 114, 34, 14143500);

INSERT INTO transactions(ticker, date, open, high, low, close, volume) VALUES ('AMZN', '2012-05-01', 229, 233, 207, 213, 4441700);

INSERT INTO transactions(ticker, date, open, high, low, close, volume) VALUES ('AMZN', '2012-06-01', 208, 228, 206, 228, 3302800);

INSERT INTO transactions(ticker, date, open, high, low, close, volume) VALUES ('AMZN', '2012-07-02', 229, 241, 213, 233, 3847300);

INSERT INTO transactions(ticker, date, open, high, low, close, volume) VALUES ('AMZN', '2012-08-01', 234, 250, 229, 248, 2762600);

-- Sample of users data insert with MD5 hash

INSERT INTO users

(username, name, register_date, login_date, email, passwd)

VALUES

('doej', 'John Doe', '2012-11-05', SYSDATE(), 'john.doe@gmail.com', MD5('password'));