## Database Design Document

CS6441 Database Management Systems

Team2 Ibou Diallo Aaron Woods DavidI iu **SamuelCrowell** 

## **Create Tables**

```
- createcompanytable
CREATETABLEcompany(
      tickervarchar(25)NOTNULL,
      company_namevarchar(25),
      streetvarchar(100),
      city varchar(25),
      state varchar(25),
      zip varchar(25),
      countryvarchar(25)NOTNULL,
       PRIMARYKEY(ticker)
) ENGINE=InnoDBDEFAULTCHARSET=latin1;
- createtransactiontable
CREATETABLEtransactions(
      tickervarchar(25)NOTNULL,
      datedateNOTNULL,
      opendecimal(10,2),
      high decimal(25,2),
      low decimal(25,2),
      close decimal(10,2),
      volumeint(10),
       PRIMARYKEY(ticker,date)
) ENGINE=InnoDBDEFAULTCHARSET=latin1;
ALTERTABLE transactions
       ADDFOREIGNKEY(ticker)
       REFERENCEScompany(TICKER);
- createuserstable
CREATETABLE`users`(
 `username`varchar(25)NOTNULL,
 `last_name`varchar(100)NOTNULL,
 `first_name`varchar(100)NOTNULL,
 `register_time`timestampNOTNULLDEFAULTCURRENT_TIMESTAMP(),
 `login_time`timestampDEFAULTNULL,
 `email` varchar(25)NOTNULL.
 'passwd' varchar(32) DEFAULTNULL.
 PRIMARYKEY ('username')
) ENGINE=InnoDBDEFAULTCHARSET=latin1;
- createsearchestable
CREATETABLE`searches`(
 'query' varchar(25) NOTNULL,
 'date performed' timestampNOTNULL,
 `username`varchar(25)NOTNULL,
 `results` varchar(400) DEFAULTNULL,
 PRIMARYKEY('query', 'date_performed', 'username'),
 KEY`username`(`username`),
 CONSTRAINT`searches_ibfk_1`FOREIGNKEY(`usemame`)REFERENCES`users`(`usemame`)
) ENGINE=InnoDBDEFAULTCHARSET=latin1
```

## **LoadSampleData**

-- Loading company info tableINSERTINTOcompany(ticker, company\_name, street, city, state, zip, country) VALUES('AAPL', 'Apple', '1 Infinite Loop', 'Cupertino', 'CA', '95014', 'United States');

INSERTINTO company (ticker, company\_name, street, city, state, zip, country) VALUES ('AMD', 'AMD', '1 Amd Place', 'Sunnyvale', 'CA', '94088', 'United States');

INSERTINTO company (ticker, company\_name, street, city, state, zip, country) VALUES ('AMZN', 'Amazon', '410 Terry Avenue North', 'Seattle', 'WA', '98109', 'United States'):

INSERTINTOcompany(ticker, company\_name, street, city, state, zip, country) VALUES('AOL', 'AOL', '770 Broadway', 'New York', 'NY', '10003', 'United States');

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

INSERTINTOcompany(ticker, company\_name, street, city, state, zip, country) VALUES('EMC', 'EMCCorporation', '176 South Street', 'Hopkinton', 'MA', '01748', 'United States'):

INSERTINTO company (ticker, company\_name, street, city, state, zip, country) VALUES ('FB', 'Facebook', '1 HackerWay', 'Menlo Park', 'CA', '94025', 'United States'):

INSERTINTO company (ticker, company\_name, street, city, state, zip, country) VALUES ('GOOG', 'Google', '1600 Amphitheatre Parkway', 'Mountain View', 'CA', '94043', 'United States'):

INSERTINTO company (ticker, company\_name, street, city, state, zip, country) VALUES ('IBM', 'IBM', '1 NewOrchardRoad', 'Armonk', 'NY', '10504', 'United States');

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

INSERTINTOtransactions(ticker, date, open, high, low, close, volume) VALUES('AAPL', '200002-01', 104, 120, 97, 29, 13741000);

INSERTINTOtransactions(ticker, date, open, high, low, close, volume) VALUES('AAPL', '200003-01', 119, 150, 114, 34, 14143500);

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

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

INSERTINTOtransactions(ticker, date, open, high, low, close, volume) VALUES('AMZN', '201207-02', 229, 241, 213, 233, 3847300);

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

## - Sampleof users data insert with MD5 hash

INSERTINTOusers2

(username,last\_name,first\_name,login\_time,email,passwd)

**VALUES** 

('doej', 'Doe', 'John', SYSDATE(), 'jdoe@msstate.edu, MD5('password'));

-- Sample of search history table inserts INSERT INTO searches

(query, date\_performed, username, results)

VALUES

('APPL', SYSDATE(), 'doej', 'SUCCESS');