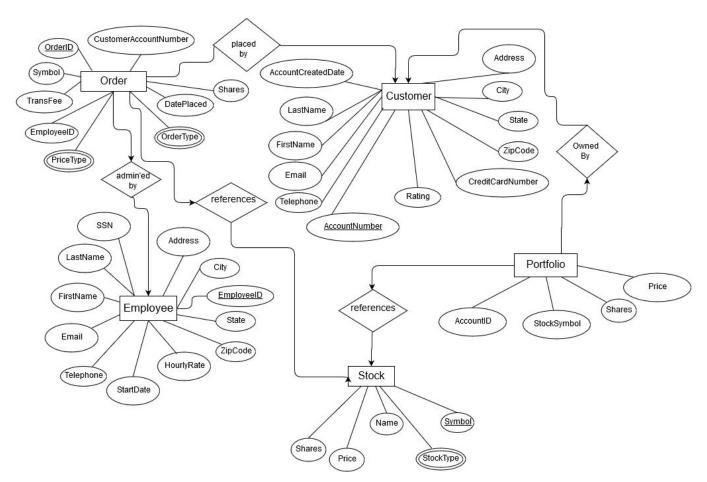
Team Name: PseudoTrade

Team members: Brandon Magaddino (<u>brandon.magaddino@stonybrook.edu</u>)

Matthew Deletto (<u>matthew.deletto@stonybrook.edu</u>)
Nelson Tsui (<u>nelson.tsui@stonybrook.edu</u>)



Working Chart: https://www.draw.io/#G0B1EmTg9SQvVCSXhRUHBBeTRleDA

Rationale:

For the Stock, Customer, and Employee data, we classified each of the structures with its corresponding data. Each of the structures have reference links to each other, whether it be directly or indirectly. All of the structures contain their corresponding identifiers which will be used as a reference to link to other structures in the database. e.g. Stock has Symbol which can be stored in Order to reference a particular stock in the Stock structure. It's important to note that we added Portfolio to hold the Stocks a Customer owns. A Customer should theoretically have many Portfolio rows.

```
CREATE TABLE Order (
      OrderID
                               INTEGER.
                                                                // Stock symbol links to stock
      Symbol
                               CHAR(5),
                                                                // Only allowed 0-3
      OrderType
                               OrderTypeCons,
                                                                // percentage
                               FLOAT(52),
      TransFee
                                                                // Reference to employee(id)
      EmployeeID
                               INTEGER,
                                                                // Only allowed 0-3
      PriceType
                               PriceTypeCons
                                                                // Date and Time type
      DatePlaced
                               DATE,
                                                                // Positive integer
      Shares
                               PosInt.
                                                                // Reference to customer(accountnumber)
      CustomerAccountNumber
                               INTEGER,
      PRIMARY KEY (OrderID),
FOREIGN KEY (EmployeeID) REFERENCES Employee(id)
      ON DELETE NO ACTION
      ON UPDATE CASCADE,
FOREIGN KEY (CustomerAccountNumber) REFERENCES
Employee(AccountNumber)
      ON DELETE NO ACTION
      ON UPDATE CASCADE
)
CREATE TABLE Customer (
      AccountNumber
                                      INTEGER,
      AccountCreatedDate
                                      DATE,
      LastName
                                      CHAR(32),
      FirstName
                                      CHAR(32),
      Email
                                      CHAR(64),
      Telephone
                                      PhoneCons,
      Rating
                                      FLOAT(52),
      CreditCardNumber
                                      CHAR(64),
      ZipCode
                                      ZipCons,
                                      CHAR(2),
      State
      City
                                      CHAR(64),
      Address
                                      CHAR(64),
      PRIMARY KEY (AccountNumber)
)
CREATE TABLE Employee(
```

```
EmployeeID
                                      INTEGER,
      SSN
                                      SocialCons.
      LastName
                                      CHAR(32),
      FirstName
                                      CHAR(32),
      Email
                                      CHAR(64),
      Telephone
                                      PhoneCons,
      StartDate
                                      DATE,
      ZipCode
                                      ZipCons,
      State
                                      CHAR(2),
      City
                                      CHAR(64),
      Address
                                      CHAR(64),
      HourlyRate
                                      PosFloat,
      PRIMARY KEY (EmployeeID)
)
CREATE TABLE Stock(
                                      CHAR(5),
      StockSymbol
      Shares
                                      PosInt,
      Price
                                      PosFloat.
      StockType
                                      CHAR(64),
      Name
                                      CHAR(32),
      PRIMARY KEY (StockSymbol)
)
CREATE TABLE Portpholio(
      AccountID
                                      INTEGER,
                                                                // Has an customer attached to it (owner)
      StockSymbol
                                                                // Reference to stock for data look ups
                                      CHAR(5),
      Shares
                                      PosInt.
                                                                // How many we own
      Price
                                      PosFloat,
                                                                // Price purchased for
FOREIGN KEY (AccountID) REFERENCES Customer(AccountNumber)
      ON DELETE NO ACTION
      ON UPDATE CASCADE,
FOREIGN KEY (StockSymbol) REFERENCES Stock(Symbol)
      ON DELETE NO ACTION
      ON UPDATE CASCADE
)
```

CREATE DOMAIN SocialCons CHAR(11)

CHECK VALUE LIKE

('[0-9][0-9][0-9]-[0-9][0-9]-[0-9][0-9]")

CREATE DOMAIN ZipCons CHAR(5)

CHECK VALUE LIKE ('[0-9][0-9][0-9][0-9]')

CREATE DOMAIN OrderTypeCons INTEGER
CHECK (VALUE =< 1 AND VALUE > 0)

CREATE DOMAIN PriceTypeCons INTEGER
CHECK (VALUE =< 3 AND VALUE > 0)

CREATE DOMAIN PosInt INTEGER
CHECK (VALUE > 0)

CREATE DOMAIN PosFloat FLOAT(52)
CHECK (VALUE > 0)

Rationale:

The structure of the relational model follows the logic of the E-R model. Each of the structures in the E-R model we created tables for. With each of their main identifiers being set as the PrimaryKey of the system. Each of these keys will be used to link one table to another. SocialCons domain: limits the data to only 9 digits separated by proper '-' character PhoneCons domain: limits the data to 10 digit phone numbers. (Doesn't include formatting) ZipCons domain: limits the data to 5 digit American ZipCodes

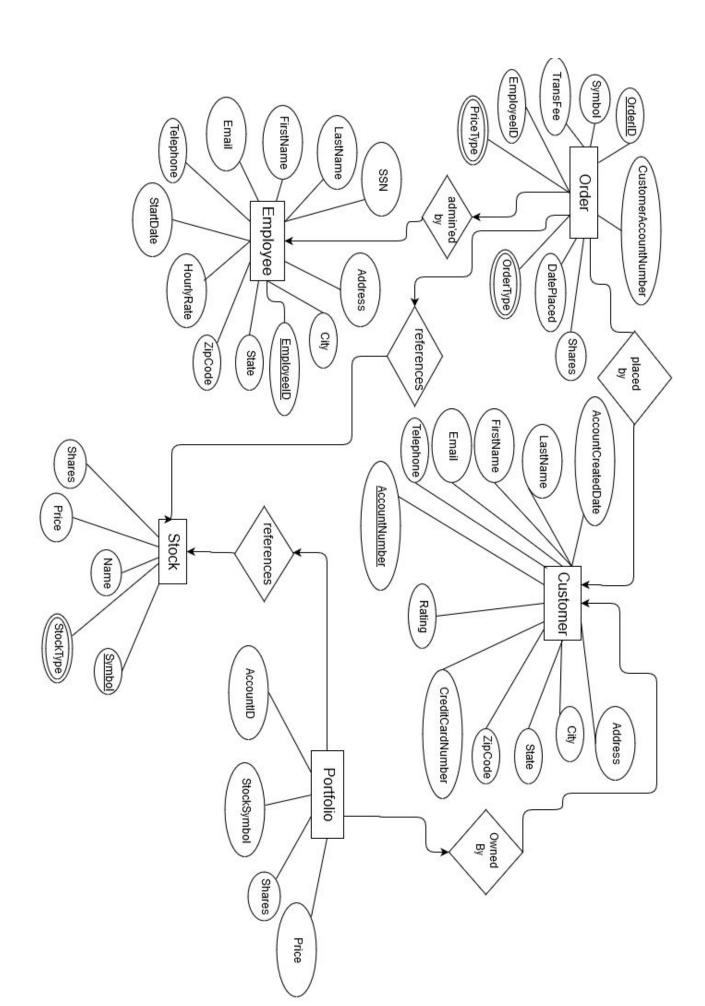
OrderTypeCons domain: limits the data to either a 1 or a 0. Could be replaced with a boolean, but leaving it a status to add flexibility later.

PriceTypeCons domain: allows data to be any of the 0-3 status' of price.

PosInt and PosFloat domain: Just limits the data to a positive decimal or float.

Collaboration plan:

Nelson Tsui will focus on the conditional orders. Matt DeLetto will focus on the Stock and Order data. Brandon Maggadino will focus on customer and employee data.



3.1.1 Set the share price of a stock(for simulating market fluctuations in a stock's share price)

UPDATE Stock

SET PricePerShare = <pps>

WHERE StockSymbol = <stock_symbol>

Ex.

When <pps> = 10.2 and <stocK_symbol> = F

Then in Stock the new cell = 10.2

3.1.2 Add, Edit, and Delete information for employee

UPDATE Employee

SET <field>= <newVal>

WHERE ID = <employe_to_find>

Ex.

When <field> = LastName and <newVal> = DeLettoo

Then in Employee the new cell = 'DeLetto'

INSERT INTO Employee (ID, SSN, StartDate, HourlyRate)

VALUES(<ID>, <SSN>, <StartDate>, <HourlyRate>)

Ex.

When <ID> = 3 and <SSN> = 123456789 and <StartDate> = 01-13-92 and

<hourlyRate> = 15

Then a new row is added with the values 3, 123456789, 01-13-92, 15

DELETE FROM Employee

WHERE ID = <Id>

```
Ex.
```

When <ID> = 109461292

Then the row with the column matching 109461292 is deleted

3.1.3 obtain a sales report for a particular month

SELECT *

FROM Order AS O

WHERE <month> = DATEPART(mm, O.DateTime)

Ex.

When <month> = 2

Then the row where orderID = 2 is output

3.1.4 Obtain a Comprehensive Listing of all Stocks

SELECT *

FROM Stock AS S

Ex.

All rows are outputted

3.1.5 produce a list of orders by stock symbol or by customer name

SELECT *

FROM orders AS o

WHERE o.stockSymbol = 'GM'

SELECT *

FROM orders AS o

```
WHERE o.customerID = (
        SELECT c.customerID
        FROM customers AS c
        WHERE c.firstName = 'Brandon'
        )
Ex.
When <stock_Symbol> = GM
Then the row where orderId = 1 is ouput.
3.1.6 produce a summary listing of revenue generated by a particular stock, stock type,or
customer
      SELECT SUM(o.fee)
      FROM orders AS o
      WHERE o.stockSymbol = 'GM'
      Ex. When <particular_stock> = GM
      Then the output is the sum of the transactionFees of GM traded stocks
      SELECT SUM(s.fee)
      FROM orders s
      WHERE s.stockSymbol = ANY (SELECT x.stockSymbol
             FROM stocks x
             WHERE x.stockType = 'automotive'
      )
Ex. When <Stock_type> = Automotive
         Then the output is the sum of the transationFees of all orders where type is
         automotive
      SELECT SUM(s.fee)
      FROM Orders s
```

WHERE s.customerID = 1

```
Ex. When <Client_Id> = 111-111-1111
```

Then the output is the sum of the transactionFees associated with that account number

3.1.7 Determine which customer representative generated the most total revenue.

SELECT c.SSN, c.LastName, c.FirstName, c.Address, c.City, c.State, c.ZipCode, c.Telephone

FROM Employees c, TotalFee t
WHERE c.EmployeeId = t.EmployeeId
ORDER BY t.TransactionFee ASC|DESC
LIMIT 1

```
CREATE VIEW TotalFee AS (

SELECT O.Employeeld, SUM(O.TransactionFee) AS TotalRev
From Order AS O

WHERE (SELECT *

FROM Order AS Q

WHERE O.EmployeeID = Q.EmployeeID

)
```

Ex.

Output would be the name of the employee who is associated with the max of the sums of transactionFee's

3.1.8 Determine which customer generated most total revenue

```
SELECT c.ClientId, c.LastName, c.FirstName, c.Address, c.City, c.State, c.ZipCode, c.Telephone, c.Email, c.CreditCard, c.Rating
FROM Client c, TotalFee t
WHERE c.ClientId = t.ClientId
ORDER BY t.TransactionFee ASC|DESC
LIMIT 1

CREATE VIEW TotalFee AS (
SELECT O.ClientId, SUM(O.TransactionFee) AS TotalRev
From Order AS O
WHERE (SELECT *
FROM Order AS Q
WHERE O.ClientID = Q.ClientID
```

Ex.

Output would be the name of the Client who is associated with the max of the sums of transactionFee's

3.1.9 Produce a List of most actively traded Stocks

CREATE VIEW TopStocks(TSId) AS
SELECT DISTINCT T.StockId
FROM Trade AS T
GROUP BY name
ORDER BY COUNT(*) ASC
LIMIT <Lim_Num>;

Ex.

Output from the sample data would be IBM

3.2.1 Record an order

INSERT INTO Orders (Orderld, Stock, OrderType, NumShares, ClientAcct, PriceType)

VALUES(<orderId>, <StockRef>, <Type>, <Number of Shares>, <Client account>, <price type>)

Ex.

When (respectively values) 1, GM, buy, 75, 444444444, 1, market Then data is propagated (1, GM, buy, 75, 444444444, 1, market)

3.2.2 Add, Edit and Delete information for a customer

INSERT INTO clients(ClientId, LastName, FirstName, Address, City, State, ZipCode, Telephone, Email, CreditCard, Rating)

VALUES(<ClientId>, <LastName>, <FirstName>, <Address>, <City>, <State>, <ZipCode>, <Telephone>, <Email>, <CreditCard>, <Rating>)

Ex.

When (respectively values) 123456789, Smith, David, 123 College road, Stony Brook, NY, 11790, 5162152345, 11-1-05, \$60, 1

Then data is propagated (123456789, Smith, David, 123 College road, Stony Brook, NY, 11790, 5162152345, 11-1-05, \$60, 1)

UPDATE clients
SET <field>= <newVal>
WHERE ClientId = <customer id>

Ex.

When <field> = FirstName, <newVal> = 'Dan', <customer id>= 123456789 Then cell firstName is now equal to (Dan)

DELETE FROM clients
WHERE ClientId = <Id>

Ex.

When <CustomerID> =444444444
Then client id 444444444 is deleted.

3.2.3 Produce customer mailing lists

SELECT c.address, c.city, c.state

FROM clients c

```
WHERE ClientId = <Id>
```

Ex.

When < Customer ID > = 4444444444

Then (135 Knowledge Lane | Stony Brook | NY | 11794)

3.2.4 Produce a list of stock suggestions for a given customer (based on that customer's past orders)

SELECT s.Stock

FROM Orders s

WHERE s.OrderType = 'BUY' AND s.ClientAcct = <CustomerID>

Ex.

When <CustomerID> =444444444

Then the list of all stocks the user bought is returned, in this case (GM)

3.3.1

A customer's current stock holdings

let <clientID> = customer's client id

SELECT A.Stock

FROM Accounts A

WHERE A.ClientId = <clientID>;

3.3.2

The share-price and trailing-stop history for a given conditional order

let <orderID> = some given conditional order

 ${\tt SELECT~S.SharePrice,~O.PriceType}$

FROM STOCKS S, ORDERS O

WHERE O.Id = <orderID> AND

S.Symbol = O.Stock AND
O.PriceType LIKE "trailing stop%";

3.3.3

The share-price and hidden-stop history for a given conditional order

let <orderID> = some given conditional order

SELECT S.SharePrice, O.PriceType

FROM STOCKS S, ORDERS O

WHERE O.Id = <orderID> AND

S.Symbol = O.Stock AND

O.PriceType LIKE "hidden stop%";

3.3.4

The share-price history of a given stock over a certain period of time (e.g., past six months)

let <currDate> = the current date
let <time> = given period of time
let <stockSymbol> = given stock symbol

SELECT ORDERS.Price

FROM ORDERS, TRADE

WHERE TRADE.StockId = <stockSymbol> AND

ORDER.Id = TRADE.OrderId AND
ORDER.DateTime < currDate AND
ORDER.DateTime > currDate - <time>

ORDER BY ORDERS.DateTime DESC;

```
A history of all current and past orders a customer has placed
let <customers> = given clientID
SELECT ORDERS.Id
FROM ORDERS
WHERE ORDERS.ClientAcct LIKE "<customers> %";
_____
3.3.6
Stocks available of a particular type and most-recent order info
let <stockType> = given stock type
SELECT Stock.Symbol
FROM Stock
WHERE Stock.Type = <stockType>;
Most recent order infomation
SELECT Order.ld
From Order, Trade, Stock
WHERE
            Order.Date = (SELECT MAX(Order.Date) FROM Order) AND
            Trade.OrderId = Order.Id
            Trade.StockId = ( SELECT Stock.Symbol
                                          FROM Stock
                                          WHERE Stock.Type = <stockType>;
                                    );
_____
```

3.3.7

```
Stocks available with a particular keyword or set of keywords in the stock
name, and most-recent order info
let <keyword> = particular keyword
SELECT Stock.Symbol
FROM Stock
WHERE Stock.Name = "%<stock>%"
Most recent order information
SELECT Order.ld
From Order, Trade, Stock
WHERE
           Order.Date = (SELECT MAX(Order.Date) FROM Order) AND
           Trade.OrderId = Order.Id
           Trade.StockId = ( SELECT Stock.Symbol
                                         FROM Stock
                                         WHERE Stock.Name = "%<stock>%"
                                   );
_____
3.3.8
Best-Seller list of stocks
SELECT Stock, SUM(NumShares) AS ShareSold
FROM Orders
WHERE OrderType = 'Buy'
GROUP BY Stock
ORDER BY ShareSold DESC
_____
```

3.3.9

Personalized stock suggestion list

SELECT DISTINCT T.StockId, S.CompanyName, S.Type, S.PricePerShare, S.NumShares FROM Trade T, Stock S, Account A

WHERE T.StockId = S.StockSymbol AND A.Id = T.AccountId AND A.Client = ?

SQL DUMP:

CREATE DATABASE IF NOT EXISTS `stocks` /*!40100 DEFAULT CHARACTER SET utf8 */; USE `stocks`;

-- MySQL dump 10.13 Distrib 5.7.9, for Win64 (x86_64)

-- Host: 127.0.0.1 Database: stocks

-- Server version 5.7.11-log

```
/*!40101 SET @OLD CHARACTER SET CLIENT=@@CHARACTER SET CLIENT*/;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD TIME ZONE=@@TIME ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD FOREIGN KEY CHECKS=@@FOREIGN KEY CHECKS,
FOREIGN KEY CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD SQL NOTES=@@SQL NOTES, SQL NOTES=0 */;
-- Table structure for table 'account'
DROP TABLE IF EXISTS 'account';
/*!40101 SET @saved_cs_client
                              = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'account' (
'ld' int(11) NOT NULL,
'DateOpened' date DEFAULT NULL,
'Client' int(11) DEFAULT NULL,
'AccountNum' int(11) DEFAULT NULL,
`Stock` char(5) DEFAULT NULL,
'NumShares' int(11) DEFAULT NULL,
PRIMARY KEY ('Id'),
KEY 'Client' ('Client'),
CONSTRAINT 'account_ibfk_1' FOREIGN KEY ('Client') REFERENCES 'client' ('Id') ON
DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
-- Dumping data for table `account`
LOCK TABLES 'account' WRITE;
/*!40000 ALTER TABLE `account` DISABLE KEYS */;
INSERT INTO 'account' VALUES
(0,'2010-01-06',4444444444,1,'GM',250),(1,'2010-01-06',44444444,1,'Ford',100),(2,'2015-05-06'
,22222222,1,'IBM',50);
/*!40000 ALTER TABLE 'account' ENABLE KEYS */;
UNLOCK TABLES:
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;
/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE CHECKS=@OLD UNIQUE CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
-- Dump completed on 2016-03-23 21:10:37
CREATE DATABASE IF NOT EXISTS 'stocks' /*!40100 DEFAULT CHARACTER SET utf8 */;
USE 'stocks':
-- MySQL dump 10.13 Distrib 5.7.9, for Win64 (x86 64)
-- Host: 127.0.0.1 Database: stocks
-- Server version 5.7.11-log
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD COLLATION CONNECTION=@@COLLATION CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
```

```
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD SQL MODE=@@SQL MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
-- Table structure for table `client`
DROP TABLE IF EXISTS 'client';
/*!40101 SET @saved_cs_client
                               = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `client` (
'Email' char(32) DEFAULT NULL,
`Rating` int(11) DEFAULT NULL,
'ld' int(11) NOT NULL,
'firstName' char(32) DEFAULT NULL,
'lastName' char(32) DEFAULT NULL,
`Address` char(64) DEFAULT NULL,
'City' char(32) DEFAULT NULL,
'State' char(2) DEFAULT NULL,
'ZipCode' char(5) DEFAULT NULL,
'Telephone' char(10) DEFAULT NULL,
'CreditCard' char(20) DEFAULT NULL,
PRIMARY KEY ('Id'),
CONSTRAINT `client_ibfk_1` FOREIGN KEY (`Id`) REFERENCES `person` (`SSN`) ON
DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table `client`
```

```
LOCK TABLES 'client' WRITE;
/*!40000 ALTER TABLE `client` DISABLE KEYS */;
INSERT INTO `client` VALUES ('syang@cs.sunysb.edu',1,111111111, 'Shang', 'Yang', '123
Success Street', 'Stony
Brook','NY','11790','5166328959','1234567812345678'),('vicdu@cs.sunysb.edu',1,222222222,'V
ictor', 'Du', '456 Fortune Road', 'Stony
Brook', 'NY', '11790', '5166324360', '5678123456781234'), ('jsmith@ic.sunysb.edu', 1,333333333', J
ohn','Smith','789 Peace Blvd.','Los
Angeles', 'CA', '93536', '3154434321', '2345678923456789'), ('pml@cs.sunysb.edu', 1,444444444, 'L
ewis', 'Philip', '135 Knowledge Lane', 'Stony
Brook', 'NY', '11794', '5166668888', '6789234567892345');
/*!40000 ALTER TABLE `client` ENABLE KEYS */;
UNLOCK TABLES:
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;
/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN KEY CHECKS=@OLD FOREIGN KEY CHECKS */;
/*!40014 SET UNIQUE CHECKS=@OLD UNIQUE CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER SET RESULTS=@OLD CHARACTER SET RESULTS */;
/*!40101 SET COLLATION CONNECTION=@OLD COLLATION CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
-- Dump completed on 2016-03-23 21:10:38
CREATE DATABASE IF NOT EXISTS 'stocks' /*!40100 DEFAULT CHARACTER SET utf8 */;
USE 'stocks';
-- MySQL dump 10.13 Distrib 5.7.9, for Win64 (x86_64)
-- Host: 127.0.0.1 Database: stocks
-- Server version 5.7.11-log
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD CHARACTER SET RESULTS=@@CHARACTER SET RESULTS*/;
```

```
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN KEY CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
-- Table structure for table 'employee'
DROP TABLE IF EXISTS 'employee';
/*!40101 SET @saved cs client
                              = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE 'employee' (
'ID' int(11) NOT NULL,
`SSN` int(11) DEFAULT NULL,
'StartDate' date DEFAULT NULL,
'HourlyRate' int(11) DEFAULT NULL,
`LastName` char(32) DEFAULT NULL,
`FirstName` char(32) DEFAULT NULL,
'Address' char(64) DEFAULT NULL,
'City' char(64) DEFAULT NULL,
`State` char(2) DEFAULT NULL,
'Zipcode' char(5) DEFAULT NULL,
PRIMARY KEY ('ID'),
KEY 'SSN' ('SSN'),
CONSTRAINT `employee_ibfk_1` FOREIGN KEY (`SSN`) REFERENCES `person` (`SSN`)
ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8:
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
-- Dumping data for table 'employee'
LOCK TABLES 'employee' WRITE;
/*!40000 ALTER TABLE `employee` DISABLE KEYS */;
INSERT INTO 'employee' VALUES (0,123456789,'2011-01-05',60,'Smith','David','123 College
Road', 'Stony Brook', 'NY', '11790'), (1,789123456, '0002-02-06', 50, 'Warren', 'David', '456 Sunken
Street', 'Stony Brook', 'NY', '11794');
/*!40000 ALTER TABLE `employee` ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;
/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN KEY CHECKS=@OLD FOREIGN KEY CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION CONNECTION=@OLD COLLATION CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
-- Dump completed on 2016-03-23 21:10:38
CREATE DATABASE IF NOT EXISTS 'stocks' /*!40100 DEFAULT CHARACTER SET utf8 */;
USE 'stocks':
-- MySQL dump 10.13 Distrib 5.7.9, for Win64 (x86_64)
-- Host: 127.0.0.1 Database: stocks
-- Server version 5.7.11-log
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT*/;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD COLLATION CONNECTION=@@COLLATION CONNECTION */;
/*!40101 SET NAMES utf8 */;
```

```
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
-- Table structure for table `location`
DROP TABLE IF EXISTS 'location';
                               = @@character_set_client */;
/*!40101 SET @saved cs client
/*!40101 SET character set client = utf8 */;
CREATE TABLE `location` (
'ZipCode' int(11) NOT NULL,
'City' char(20) NOT NULL,
'State' char(20) NOT NULL,
PRIMARY KEY ('ZipCode')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table 'location'
LOCK TABLES 'location' WRITE;
/*!40000 ALTER TABLE 'location' DISABLE KEYS */;
INSERT INTO 'location' VALUES (11790, 'Stony Brook', 'NY'), (11794, 'Stony
Brook','NY'),(93536,'Los Angeles','CA');
/*!40000 ALTER TABLE 'location' ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;
```

```
/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER SET CLIENT=@OLD CHARACTER SET CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL NOTES=@OLD SQL NOTES */;
-- Dump completed on 2016-03-23 21:10:38
CREATE DATABASE IF NOT EXISTS 'stocks' /*!40100 DEFAULT CHARACTER SET utf8 */;
USE 'stocks';
-- MySQL dump 10.13 Distrib 5.7.9, for Win64 (x86 64)
-- Host: 127.0.0.1 Database: stocks
-- Server version 5.7.11-log
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD UNIQUE CHECKS=@@UNIQUE CHECKS, UNIQUE CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD SQL NOTES=@@SQL NOTES, SQL NOTES=0 */;
-- Table structure for table `orders`
DROP TABLE IF EXISTS 'orders';
```

```
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE `orders` (
'NumShares' int(11) DEFAULT NULL,
'PricePerShare' double DEFAULT NULL,
'ld' int(11) NOT NULL,
'DateTime' datetime DEFAULT NULL,
'Percentage' double DEFAULT NULL,
'Price' double DEFAULT NULL,
`SOrder` char(5) DEFAULT NULL,
`clientID` int(11) DEFAULT NULL,
'Stock' char(5) DEFAULT NULL,
PRIMARY KEY ('Id'),
KEY `clientID` (`clientID`),
CONSTRAINT 'orders_ibfk_1' FOREIGN KEY ('clientID') REFERENCES 'client' ('Id')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'orders'
LOCK TABLES 'orders' WRITE;
/*!40000 ALTER TABLE `orders` DISABLE KEYS */;
INSERT INTO 'orders' VALUES (75,34.23,1,'0001-01-06
00:00:00',0,0,'0',444444444,'GM'),(NULL,91.41,2,'0002-02-06
00:00:00',10,90,'1',222222222,'IBM');
/*!40000 ALTER TABLE 'orders' ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME ZONE=@OLD TIME ZONE */;
/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER SET CLIENT=@OLD CHARACTER SET CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
```

```
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
-- Dump completed on 2016-03-23 21:10:38
CREATE DATABASE IF NOT EXISTS 'stocks' /*!40100 DEFAULT CHARACTER SET utf8 */;
USE 'stocks';
-- MySQL dump 10.13 Distrib 5.7.9, for Win64 (x86_64)
-- Host: 127.0.0.1 Database: stocks
-- Server version 5.7.11-log
/*!40101 SET @OLD CHARACTER SET CLIENT=@@CHARACTER SET CLIENT*/;
/*!40101 SET @OLD CHARACTER SET RESULTS=@@CHARACTER SET RESULTS*/;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD TIME ZONE=@@TIME ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN KEY CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD SQL NOTES=@@SQL NOTES, SQL NOTES=0 */;
-- Table structure for table 'person'
DROP TABLE IF EXISTS 'person';
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'person' (
`SSN` int(11) NOT NULL,
`LastName` char(20) NOT NULL,
```

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`FirstName` char(20) NOT NULL,
'Address' char(20) DEFAULT NULL,
'ZipCode' int(11) DEFAULT NULL,
'Telephone' char(11) DEFAULT NULL,
PRIMARY KEY ('SSN'),
KEY 'ZipCode' ('ZipCode'),
CONSTRAINT 'person ibfk 1' FOREIGN KEY ('ZipCode') REFERENCES 'location'
('ZipCode') ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'person'
LOCK TABLES 'person' WRITE;
/*!40000 ALTER TABLE `person` DISABLE KEYS */;
INSERT INTO 'person' VALUES (111111111, 'Yang', 'Shang', '123 Success
Street',11790,'5166328959'),(123456789,'Smith','David','123 College
road',11790,'5162152345'),(222222222,'Du','Victor','456 Fortune
Road',11790,'5166324360'),(333333333,'Smith','John','789 Peace
Blvd.',93536,'3154434321'),(444444444,'Philip','Lewis','135 Knowledge
Lane',11794,'5166668888'),(789123456,'Warren','David','456 Sunken
Street',11794,'6316329987');
/*!40000 ALTER TABLE `person` ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;
/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER SET CLIENT=@OLD CHARACTER SET CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL NOTES=@OLD SQL NOTES */;
```

-- Dump completed on 2016-03-23 21:10:38

```
CREATE DATABASE IF NOT EXISTS 'stocks' /*!40100 DEFAULT CHARACTER SET utf8 */;
USE 'stocks':
-- MySQL dump 10.13 Distrib 5.7.9, for Win64 (x86_64)
-- Host: 127.0.0.1 Database: stocks
-- Server version 5.7.11-log
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD CHARACTER SET RESULTS=@@CHARACTER SET RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD SQL MODE=@@SQL MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
-- Dumping events for database 'stocks'
-- Dumping routines for database 'stocks'
/*!40103 SET TIME ZONE=@OLD TIME ZONE */;
/*!40101 SET SQL MODE=@OLD SQL MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
```

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/*!40101 SET CHARACTER SET RESULTS=@OLD CHARACTER SET RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
-- Dump completed on 2016-03-23 21:10:39
CREATE DATABASE IF NOT EXISTS 'stocks' /*!40100 DEFAULT CHARACTER SET utf8 */;
USE 'stocks';
-- MySQL dump 10.13 Distrib 5.7.9, for Win64 (x86 64)
-- Host: 127.0.0.1 Database: stocks
-- Server version 5.7.11-log
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD TIME ZONE=@@TIME ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD FOREIGN KEY CHECKS=@@FOREIGN KEY CHECKS,
FOREIGN KEY CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL MODE='NO AUTO VALUE ON ZERO' */;
/*!40111 SET @OLD SQL NOTES=@@SQL NOTES, SQL NOTES=0 */;
-- Table structure for table 'stock'
DROP TABLE IF EXISTS 'stock';
/*!40101 SET @saved cs client
                             = @@character set client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'stock' (
`StockSymbol` char(20) NOT NULL,
```

```
'CompanyName' char(20) NOT NULL,
'Type' char(20) NOT NULL,
'PricePerShare' double DEFAULT NULL,
'NumShares' int(11) DEFAULT NULL,
PRIMARY KEY ('StockSymbol')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table 'stock'
LOCK TABLES 'stock' WRITE;
/*!40000 ALTER TABLE `stock` DISABLE KEYS */;
INSERT INTO 'stock' VALUES ('F', 'Ford', 'automotive', 9,750), ('GM', 'General
Motors', 'automotive', 34.23, 1000), ('IBM', 'IBM', 'Computer', 91.41, 500);
/*!40000 ALTER TABLE `stock` ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME ZONE=@OLD TIME ZONE */;
/*!40101 SET SQL MODE=@OLD SQL MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER SET CLIENT=@OLD CHARACTER SET CLIENT */;
/*!40101 SET CHARACTER SET RESULTS=@OLD CHARACTER SET RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
-- Dump completed on 2016-03-23 21:10:39
CREATE DATABASE IF NOT EXISTS 'stocks' /*!40100 DEFAULT CHARACTER SET utf8 */;
USE 'stocks';
-- MySQL dump 10.13 Distrib 5.7.9, for Win64 (x86 64)
-- Host: 127.0.0.1 Database: stocks
```

```
-- Server version 5.7.11-log
```

```
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */:
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD UNIQUE CHECKS=@@UNIQUE CHECKS, UNIQUE CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
-- Table structure for table 'trade'
DROP TABLE IF EXISTS 'trade';
/*!40101 SET @saved cs client
                              = @@character set client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE `trade` (
'AccountId' int(11) NOT NULL,
'BrokerId' int(11) NOT NULL,
'TransactionId' int(11) NOT NULL,
'OrderId' int(11) NOT NULL,
'StockId' char(20) NOT NULL,
PRIMARY KEY ('AccountId', 'BrokerId', 'TransactionId', 'OrderId', 'StockId'),
KEY 'Brokerld' ('Brokerld'),
KEY 'TransactionId' ('TransactionId'),
KEY 'Orderld' ('Orderld'),
KEY 'StockId' ('StockId'),
CONSTRAINT `trade_ibfk_1` FOREIGN KEY (`AccountId`) REFERENCES `account` (`Id`) ON
DELETE NO ACTION ON UPDATE CASCADE,
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CONSTRAINT `trade_ibfk_2` FOREIGN KEY (`BrokerId`) REFERENCES `employee` (`ID`) ON
DELETE NO ACTION ON UPDATE CASCADE,
CONSTRAINT `trade_ibfk_3` FOREIGN KEY (`TransactionId`) REFERENCES `transaction`
('Id') ON DELETE NO ACTION ON UPDATE CASCADE,
CONSTRAINT 'trade ibfk 4' FOREIGN KEY ('OrderId') REFERENCES 'orders' ('Id') ON
DELETE NO ACTION ON UPDATE CASCADE,
CONSTRAINT 'trade ibfk 5' FOREIGN KEY ('StockId') REFERENCES 'stock'
('StockSymbol') ON DELETE NO ACTION ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'trade'
LOCK TABLES 'trade' WRITE;
/*!40000 ALTER TABLE `trade` DISABLE KEYS */;
/*!40000 ALTER TABLE `trade` ENABLE KEYS */;
UNLOCK TABLES:
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;
/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE CHECKS=@OLD UNIQUE CHECKS */;
/*!40101 SET CHARACTER SET CLIENT=@OLD CHARACTER SET CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL NOTES=@OLD SQL NOTES */;
-- Dump completed on 2016-03-23 21:10:38
CREATE DATABASE IF NOT EXISTS 'stocks' /*!40100 DEFAULT CHARACTER SET utf8 */;
USE 'stocks';
-- MySQL dump 10.13 Distrib 5.7.9, for Win64 (x86 64)
-- Host: 127.0.0.1 Database: stocks
```

```
-- Server version 5.7.11-log
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD COLLATION CONNECTION=@@COLLATION CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD SQL MODE=@@SQL MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
-- Table structure for table `transaction`
DROP TABLE IF EXISTS 'transaction';
/*!40101 SET @saved cs client
                             = @@character set client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `transaction` (
'ld' int(11) NOT NULL,
`Fee` double DEFAULT NULL,
'DateTime' datetime DEFAULT NULL,
`PricePerShare` double DEFAULT NULL,
PRIMARY KEY ('Id')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'transaction'
```

```
LOCK TABLES `transaction` WRITE;

/*!40000 ALTER TABLE `transaction` DISABLE KEYS */;

/*!40000 ALTER TABLE `transaction` ENABLE KEYS */;

UNLOCK TABLES;

/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;

/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;

/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;

/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;

/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;

/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
```

⁻⁻ Dump completed on 2016-03-23 21:10:38

USER GUIDE

Customer Help

- View your current stock holdings
- The share-price and trailing-stop history for a given conditional order
- o The share-price and hidden-stop history for a given conditional order
- The share-price history of a given stock over a certain period of time
- A history of all current and past orders a customer has placed
- Stocks available of a particular type and most-recent order info
- Stocks available with a particular keyword or set of keywords in the stock name, and most-recent order info
- List of best selling stocks
- Personalized stock suggestion list

0

Employee Help

- Record an order
- Add, edit or delete customer information
- Produce a customer mailing list
- Produce a list of stock suggestions

Manager Help

- Set the share price of a stock (for simulating market fluctuations in a stock's share price)
- o Add, Edit and Delete information for an employee
- Obtain a sales report for a particular month
- Produce a comprehensive listing of all stocks
- Produce a list of orders by stock symbol or by customer name
- Produce a summary listing of revenue generated by a particular stock, stock type, or customer
- o Determine which customer representative generated most total revenue
- Determine which customer representative generated most total revenue

Produce a list of most actively traded stocks

Customer Help Menu

View your current stock holdings

To view your current stock holdings. Sign into your account through the button on the top-right corner of the window. Once you enter your information and enter your customer prompt screen. Press the 'current stock holdings' button and it should bring up a window for you to view all of your stocks, how many shares you have, how much money you made from them, and more!

The share-price and trailing-stop history for a given conditional order

To view the share price and trailing stop history for a given condition order. Make sure you are signed into your account. Then on the customer homepage click the view trailing-stop history button and you will be brought to a page with your stocks and their trailing stop history. If you would like to view an individual stock just click on it.

The share-price and hidden-stop history for a given conditional order

To view the share price and hidden stop history is simple. Make sure you are signed into your account. then on the customer homepage click the view hidden stop history button and you will be brought to a page with your stocks and their trailing stop history. If you would like to view an individual stock just click on it.

The share-price history of a given stock over a certain period of time

To view the share price history of a given stock over a certain period of time. Make sure to be signed into your account. When you are on the customer homepage just click the share-price history and it should redirect you to another page. Once on the other page type in your given stock and the timeframe you want to inspect. Now click submit and it will appear.

A history of all current and past orders a customer has placed

To view the order history of all current and past orders that you have placed. Go to the customer prompt menu then click on order history. This should direct you to a page with all of your current and past orders.

Stocks available of a particular type and most-recent order info

To view the stocks that are available of a particular type. Go to the customer homepage and click on buy stocks. Once there just filter out the stocks that you do not want to view and it should narrow the results down to just the ones that you want to inspect. To view your most

recent order info. Go to order history and view the first order in the table. That will be your most-recent order info.

Stocks available with a particular keyword or set of keywords in the stock name, and most-recent order info

To view stocks available with a particular keyword or set of keywords. Go to the customer homepage then click on buy stocks. Once there just filter out by typing in the keywords you want to use to filter the buy results. To view your most-recent order info refer to here.

List of best selling stocks

To view the best selling stocks go to the customer homepage then click on the buy stocks option. Once here you can simply click on the best selling stocks option and it should show a list of all the best selling stocks.

Personalized stock suggestion list

To view a personalized stock suggestion based on your order history. Just go to the customer homepage and click on the personalied stock suggestions list.

Employee Help Menu

Record an order

To record an order for a customer go to the employee homepage and click the record an order button. This should redirect you to the record order page. Now fill in all of the input boxes as per the customer's requests then click submit.

Add, edit, or remove customer information

To edit, add, or remove customer information. Go to the employee homepage and click the customer button. Here you should see a list of all of the customers. If you want to add a customer click the add customer button. If you want to remove a customer click the customer you wish to remove and hit the remove button. If you want to edit a customer. Edit the customer select the customer and click edit. Now it should redirect you to a page. Fill out what you want to edit about the customer

Produce a mailing list

To generate a mailing list of all of the customer. Go to the employee homepage and click generate mailing list. This will redirect you to the mailing list page. Just copy and paste into your favorite email client and mail away!

Produce a list of stock suggestions

To produce a list of stock suggestions for a particular customer. Go to the employee homepage then click produce stock suggestions. You will be redirected to the produce stock suggestions page. Now select the customer you want to generate the suggestion for.

Manager Help Menu

Set the share price of a stock (for simulating market fluctuations in a stock's share price)

To set the share price of a stock. Go to the manager homepage and click set share price. Now set share you wish to manipulate and click edit. Now type in your desired share press and click submit.

Add, Edit and Delete information for an employee

To add, edit, or delete information for an employee. Go to the manager homepage and click on add employee to add an employee, select an employee then click edit to edit an employee, or click select an employee then click remove to remove the employee.

Obtain a sales report for a particular month

To obtain a sales report for a particular month simply go to the manager homepage then click on sales report. Now select the particular month and you will be redirected to a page showing all the information of a sales report.

Produce a comprehensive listing of all stocks

To produce a list of all stocks. Go to the manager homepage and click the produce stocks button. This will redirect you to the page with a table containing a listing of all stocks.

Produce a list of orders by stock symbol or by customer name

To produce a list of orders whether by stock symbol or by customer name. Go to the manager homepage and click the list of orders button. Now select whether you want it by stock symbol or customer name. Based on the stock symbol/customer name select it should redirect you to the page that lists all orders based on your criteria.

Produce a summary listing of revenue generated by a particular stock, stock type, or customer

To produce a summary listing of all the revenue generate by a particular stock. Go to the manager homepage and select the summary revenue button. Now click the dropdown menu of

the type of revenue you wish to generate. Then select the customer, stock, or stocktype and it should generate at the bottom of the window.

Determine which customer representative generated most total revenue

To determine which employee has generated the most total revenue. Simply go to the manager homepage and click most revenue. Now it will redirect you to a page with either customers or customer representative. Select customer representatives. It will now show which customer representative/employee has generate the most total revenue overall.

Determine which customer generated most total revenue

Follow the steps similar to here. Then instead of picking the customer representative option. Pick the customer option. It will now display the customer who has generate the most total revenue.

Produce a list of most actively traded stocks

To produce a list of the most actively traded stocks. Go to the manager homepage. Now click the view stocks button. Now sort the stocks from by the amount of orders to view the most actively traded stocks.

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