

DBMS ASSIGNMENT 1

TITLE: FOREX
TRADING
DATA BASE
SYSTEM

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1602-18-737-071

ABSTRACT:

This is project “Forex trading database systems” is: The foreign exchange (forex) market is the largest and most sophisticated market in the world for currency exchange. Forex trading takes place not on a centralized exchange as in the case of options, stock or futures, but through a wide variety of fx brokers. Money transfer comparison websites offer the most comprehensive and useful information you can find on the web. They do the legwork for you: they research the trends and the market, they compare exchange rates and brokers and list the best results based on your instructions. With all the information gathered, you only have to choose the best exchange rates. This project help us to know how forex trading happens using database systems.

REQUIREMENT ANALYSIS

List of Tables:

- Login
- Account
- transactions
- trade

List of attributes with their domain tpyes:

Login:

customer id(15)

username(15)

password(10)

customer name(15)

contact
address(20)

Account:

account id(15);
account type(15)
balance (20)
balance type(20)

Transaction:

transaction id(15)
currency of(15)

Trade:

trading id(10)
administrator(20)
contact(10)
currency to(15)
address(20)

customer_account:

since(10)

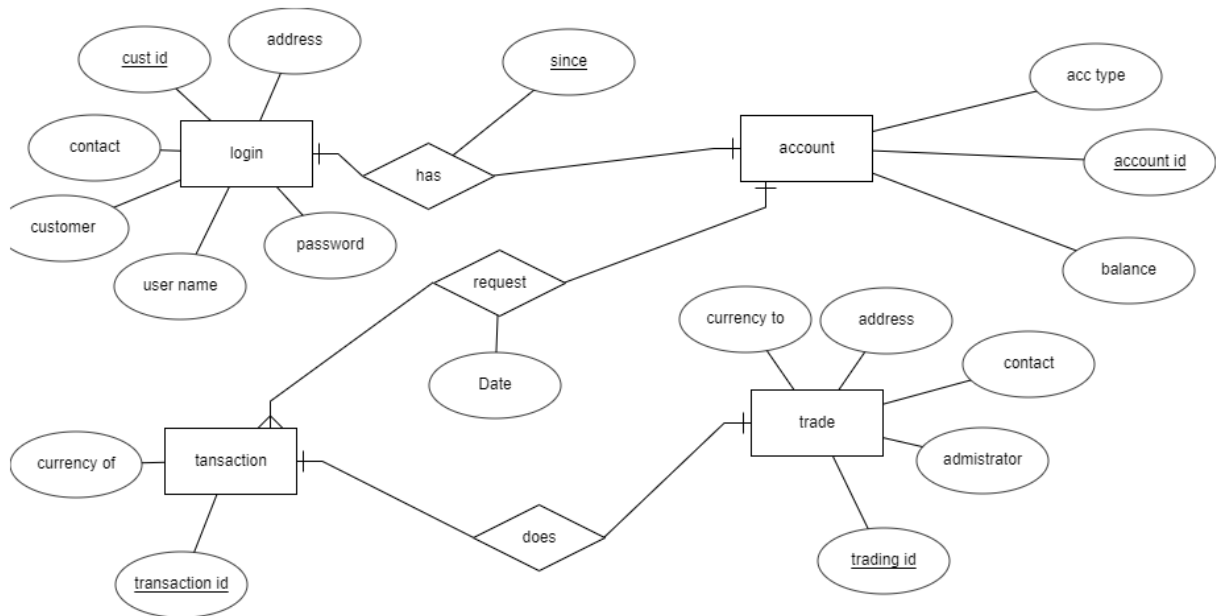
request_transaction:

on the day(10)

does_through:

on the date(10)

ER DIAGRAM:



Mapping Cardinalities and Participation Constraints:

A person can do forex trading through by logging into his trading account .He should have a username and password to login into his trading account. So one to one mapping.

He should have a bank account which is linked to his trading account. Then he should request for a transaction through his account . So it is a one to many mapping.

The transaction is done through trading. So one transaction happens through trading . So it is one to one mapping.

DDL COMMANDS

```

create table has(since number(10),customerid number(15),accountid number(15),foreign
key(accountid) references login ,foreign key(customerid) references login);
  
```

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Table created.

create table has(since number(10),customerid number(15),accountid number(15),foreign key(accountid) references login ,foreign key(customerid) references login);

Table created.

create table does(trid number(15),tid number(15),foreign key(trid) references trade ,foreign key(tid) references trade);

```
Select Run SQL Command Line

SQL> create table login(customerid number(15),username varchar2(15),password number(10),customername varchar2(15),contact number(10),address number(10));
Table created.

SQL> create tablea account(accountid number(15),accounttype varchar2(15),balance number(20),balancetype varchar2(20));
create tablea account(accountid number(15),accounttype varchar2(15),balance number(20),balancetype varchar2(20))
*
ERROR at line 1:
ORA-00901: invalid CREATE command

SQL> create table account(accountid number(15),accounttype varchar2(15),balance number(20),balancetype varchar2(20)
2
SQL> create table account(accountid number(15),accounttype varchar2(15),balance number(20),balancetype varchar2(20);
create table account(accountid number(15),accounttype varchar2(15),balance number(20),balancetype varchar2(20)
*
ERROR at line 1:
ORA-00907: missing right parenthesis

SQL> create table account(accountid number(15),accounttype varchar2(15),balance number(20),balancetype varchar2(20));
Table created.

SQL> desc account;
Name                                Null?    Type
-----
ACCOUNTID                           NUMBER(15)
ACCOUNTTYPE                         VARCHAR2(15)
BALANCE                             NUMBER(20)
BALANCETYPE                         VARCHAR2(20)

SQL> desc login;
Name                                Null?    Type
-----
CUSTOMERID                          NUMBER(15)
USERNAME                           VARCHAR2(15)
PASSWORD                            NUMBER(10)
CUSTOMERNAME                        VARCHAR2(15)
CONTACT                             NUMBER(10)
ADDRESS                             NUMBER(10)
```

```
Run SQL Command Line

SQL> create table has(since number(10));
Table created.

SQL> create table request(ontheday number(10));
Table created.

SQL> alter table login add primary key(customerid);
alter table login add primary key(customerid)
*
ERROR at line 1:
ORA-01735: invalid ALTER TABLE option

SQL> desc login;
Name                                Null?    Type
-----
CUSTOMERID                          NUMBER(15)
USERNAME                           VARCHAR2(15)
PASSWORD                            NUMBER(10)
CUSTOMERNAME                        VARCHAR2(15)
CONTACT                             NUMBER(10)
ADDRESS                             NUMBER(10)

SQL> alter table login add primary key(customerid);
Table altered.

SQL> desc account;
Name                                Null?    Type
-----
ACCOUNTID                           NUMBER(15)
ACCOUNTTYPE                         VARCHAR2(15)
BALANCE                             NUMBER(20)
BALANCETYPE                         VARCHAR2(20)

SQL> create table account add primary key(accountid);
create table account add primary key(accountid)
*
ERROR at line 1:
ORA-00922: missing or invalid option
```

Table created.

SQL> desc trade;

Name	Null?	Type
TRID	NOT NULL	NUMBER(10)
ADMINISTRATOR		VARCHAR2(20)
CONTACT		NUMBER(10)
CURRENCYTO		VARCHAR2(15)
ADDRESS		VARCHAR2(20)

SQL> alter table has rename to customer_account;

Table altered.

SQL> alter table request rename to request_transaction

2 ;

Table altered.

SQL> alter table does rename to does_trading;

Table altered.

SQL> desc customer_account;

Name	Null?	Type
CUSTOMERID		NUMBER(15)
ACCOUNTID		NUMBER(15)
SINCE		NUMBER(10)

SQL> desc request_transaction;

Name	Null?	Type
------	-------	------

ONTHEDAY	NUMBER(10)
ACCOUNTID	NUMBER(15)
TID	NUMBER(15)

SQL> desc does_trading;

Name	Null?	Type

TRID		NUMBER(15)
TID		NUMBER(15)

DML COMMANDS

SQL> insert into login

values(&customerid,&username,&password,&customername,&contact,&address);

Enter value for customerid: 123

Enter value for username: hema

Enter value for password: 1802

Enter value for customername: hkam

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Enter value for contact: 987

Enter value for address: 876

old 1: insert into login

values(&customerid,&username,&password,&customername,&contact,&address)

new 1: insert into login values(123,'hema',1802,'hkam',987,876)

1 row created.

SQL> insert into login

values(&customerid,&username,&password,&customername,&contact,&address);

Enter value for customerid: 81765

Enter value for username: varshi

Enter value for password: 12345

Enter value for customername: pvarsh

Enter value for contact: 98765

Enter value for address: 192837

old 1: insert into login

values(&customerid,&username,&password,&customername,&contact,&address)

new 1: insert into login values(81765,'varshi',12345,'pvarsh',98765,192837)

1 row created.

SQL> /

Enter value for customerid: 5463728

Enter value for username: thanu

Enter value for password: 56784

Enter value for customername: thanvar

Enter value for contact: 45362

Enter value for address: 102938

old 1: insert into login

values(&customerid,&username,&password,&customername,&contact,&address)

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new 1: insert into login values(5463728,'thanu',56784,'thanvar',45362,102938)

1 row created.

SQL> /

Enter value for customerid: 45678

Enter value for username: prathu

Enter value for password: 1331

Enter value for customername: prathuv

Enter value for contact: 133126

Enter value for address: 98484

old 1: insert into login

values(&customerid,&username,&password,&customername,&contact,&address)


```
new 1: insert into login values(45678,'prathu',1331,'prathuv',133126,98484)
```

1 row created.

```
SQL> /
```

Enter value for customerid: 1326

Enter value for username: sai

Enter value for password: 123455

Enter value for customername: saivarsh

Enter value for contact: 13456

Enter value for address: 99128

```
old 1: insert into login
values(&customerid,&username,&password,&customername,&contact,&address)
```

```
new 1: insert into login values(1326,'sai',123455,'saivarsh',13456,99128)
```

1 row created.

```
SQL> /
```

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Enter value for customerid: 263113

Enter value for username: saivarshi

Enter value for password: 13312609

Enter value for customername: saisai

Enter value for contact: 9010688

Enter value for address: 321456

```
old 1: insert into login
values(&customerid,&username,&password,&customername,&contact,&address)
```

```
new 1: insert into login values(263113,'saivarshi',13312609,'saisai',9010688,321456)
```

1 row created.

```
SQL> insert into account values(&accountid,&accounttype,&balance,&balancetype);
```

```
Enter value for accountid: 4567
```

```
Enter value for accounttype: bussiness
```

```
Enter value for balance: 7000
```

```
Enter value for balancetype: indian
```

```
old 1: insert into account values(&accountid,&accounttype,&balance,&balancetype')
```

```
new 1: insert into account values(4567,'bussiness',7000,'indian')
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for accountid: 99128
```

```
Enter value for accounttype: student
```

```
Enter value for balance: 4500
```

```
Enter value for balancetype: indian
```

```
old 1: insert into account values(&accountid,&accounttype,&balance,&balancetype')
```

```
new 1: insert into account values(99128,'student',4500,'indian')
```

10

```
1 row created.
```

```
SQL> /
```

```
Enter value for accountid: 123456
```

```
Enter value for accounttype: bussiness
```

```
Enter value for balance: 8000
```

```
Enter value for balancetype: indian
```

```
old 1: insert into account values(&accountid,&accounttype,&balance,&balancetype')
```

```
new 1: insert into account values(123456,'bussiness',8000,'indian')
```

```
1 row created.
```

```
SQL> /
```

Enter value for accountid: 9010688

Enter value for accounttype: student

Enter value for balance: 7500

Enter value for balancetype: indian

old 1: insert into account values(&accountid,&accounttype,&balance,&balancetype')

new 1: insert into account values(9010688,'student',7500,'indian')

1 row created.

SQL> /

Enter value for accountid: 9381454

Enter value for accounttype: bussiness

Enter value for balance: 9500

Enter value for balancetype: indian

old 1: insert into account values(&accountid,&accounttype,&balance,&balancetype')

new 1: insert into account values(9381454,'bussiness',9500,'indian')

1 row created.

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SQL> insert into trade values(&trid,&administrator,&contact,¤cyto,&address');

Enter value for trid: 12345785

Enter value for admistrator: revathi

Enter value for contact: 675899590

Enter value for currencyto: dollars

Enter value for address: 6-60

old 1: insert into trade values(&trid,&administrator,&contact,¤cyto,&address')

new 1: insert into trade values(12345785,'revathi',675899590,'dollars','6-60')

1 row created.

SQL> /

Enter value for trid: 133126

Enter value for administrator: prathima

Enter value for contact: 9381454667

Enter value for currencyto: dollars

Enter value for address: 7-70

old 1: insert into trade values(&trid,&administrator,&contact,¤cyto,&address')

new 1: insert into trade values(133126,'prathima',9381454667,'dollars','7-70')

1 row created.

SQL> /

Enter value for trid: 311326

Enter value for administrator: varshitha

Enter value for contact: 9912825524

Enter value for currencyto: dollars

Enter value for address: 6-60

old 1: insert into trade values(&trid,&administrator,&contact,¤cyto,&address')

new 1: insert into trade values(311326,'varshitha',9912825524,'dollars','6-60')

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1 row created.

SQL> /

Enter value for trid: 6743567

Enter value for administrator: thanuja

Enter value for contact: 9010688988

Enter value for currencyto: dollars

Enter value for address: 4-40

old 1: insert into trade values(&trid,&administrator,&contact,¤cyto,&address')

new 1: insert into trade values(6743567,'thanuja',9010688988,'dollars','4-40')

1 row created.

SQL> /

Enter value for trid: 2345667

Enter value for administrator: karthik

Enter value for contact: 9640410710

Enter value for currencyto: dollars

Enter value for address: 5-50

old 1: insert into trade values(&trid,&administrator,&contact,¤cyto,&address')

new 1: insert into trade values(2345667,'karthik',9640410710,'dollars','5-50')

1 row created.

SQL> /

Enter value for trid: 654321

Enter value for administrator: preetham

Enter value for contact: 9356457831

Enter value for currencyto: dollars

Enter value for address: 2-20

old 1: insert into trade values(&trid,&administrator,&contact,¤cyto,&address')

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new 1: insert into trade values(654321,'preetham',9356457831,'dollars','2-20')

1 row created.

SQL>

SQL> insert into transaction values(&tid,¤cyof');

Enter value for tid: 56785

Enter value for currencyof: indian

old 1: insert into transaction values(&tid,¤cyof')

new 1: insert into transaction values(56785,'indian')

1 row created.

SQL> /

Enter value for tid: 7859356

Enter value for currencyof: indian

old 1: insert into transaction values(&tid,¤cyof')

new 1: insert into transaction values(7859356,'indian')

1 row created.

SQL> /

Enter value for tid: 674892

Enter value for currencyof: dollar

old 1: insert into transaction values(&tid,¤cyof')

new 1: insert into transaction values(674892,'dollar')

1 row created.

SQL> /

Enter value for tid: 8942074

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Enter value for currencyof: dollar

old 1: insert into transaction values(&tid,¤cyof')

new 1: insert into transaction values(8942074,'dollar')

1 row created.

SQL> /

Enter value for tid: 784927

Enter value for currencyof: dollar

old 1: insert into transaction values(&tid,¤cyof')

new 1: insert into transaction values(784927,'dollar')

1 row created.

SQL> /

Enter value for tid: 785932

Enter value for currencyof: indian

old 1: insert into transaction values(&tid,¤cyof')

new 1: insert into transaction values(785932,'indian')

1 row created.

SQL> insert into request values(&ontheday,&accountid,&tid);

Enter value for ontheday: 12-02

Enter value for accountid: 4567

Enter value for tid: 56785

old 1: insert into request values(&ontheday,&accountid,&tid)

new 1: insert into request values(12-02,4567,56785)

1 row created.

SQL> insert into request values(&ontheday,&accountid,&tid);

Enter value for ontheday: 18-02

Enter value for accountid: 99128

Enter value for tid: 7859356

old 1: insert into request values(&ontheday,&accountid,&tid)

new 1: insert into request values(18-02,99128,7859356)

1 row created.

SQL> /

Enter value for ontheday: 17-02

Enter value for accountid: 123456

Enter value for tid: 674892

old 1: insert into request values(&ontheday,&accountid,&tid)

new 1: insert into request values(17-02,123456,674892)

1 row created.

SQL> /

Enter value for ontheday: 16-02

Enter value for accountid: 9010688

Enter value for tid: 8942074

old 1: insert into request values(&ontheday,&accountid,&tid)

new 1: insert into request values(16-02,9010688,8942074)

1 row created.

Roll number:1602-18-737-071

Name:Hema kamani