**Auction Management System**

Dr/ Hazem Marwan

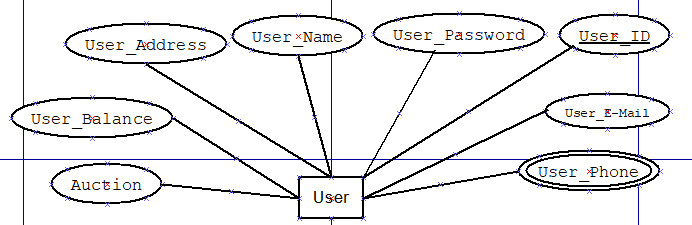
[hazem.marawan@hotmail.com](mailto:hazem.marawan@hotmail.com)

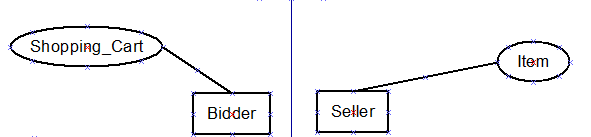
1. Gamal Abdel-Moneam Elsawy (section 5)
2. Bassam Saber Megahed Mansour (section 5)
3. Hisham Gamal Abdel-Qawy (section 17)
4. Kareem Abdel Wahab Abdel Halim (section 12)

Date:-

1. Initial Design :

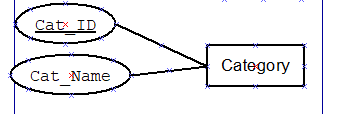
1-User:



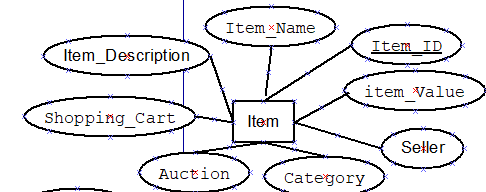


-Bidder and Seller is a weak entity. shopping\_cart\_id, item\_id with user\_id will be key attribute.

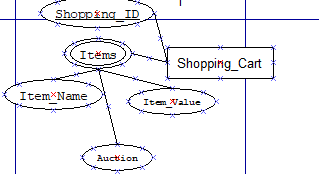
2-Category:



3-Item:

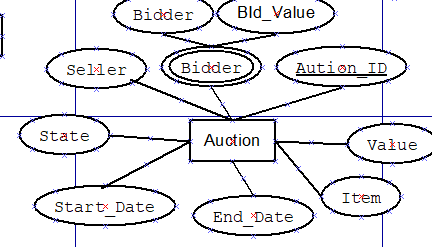


4-Shopping\_Cart:



* Items is a multivalued with attribute item name and item value from last bid and auction id that item participate in it.

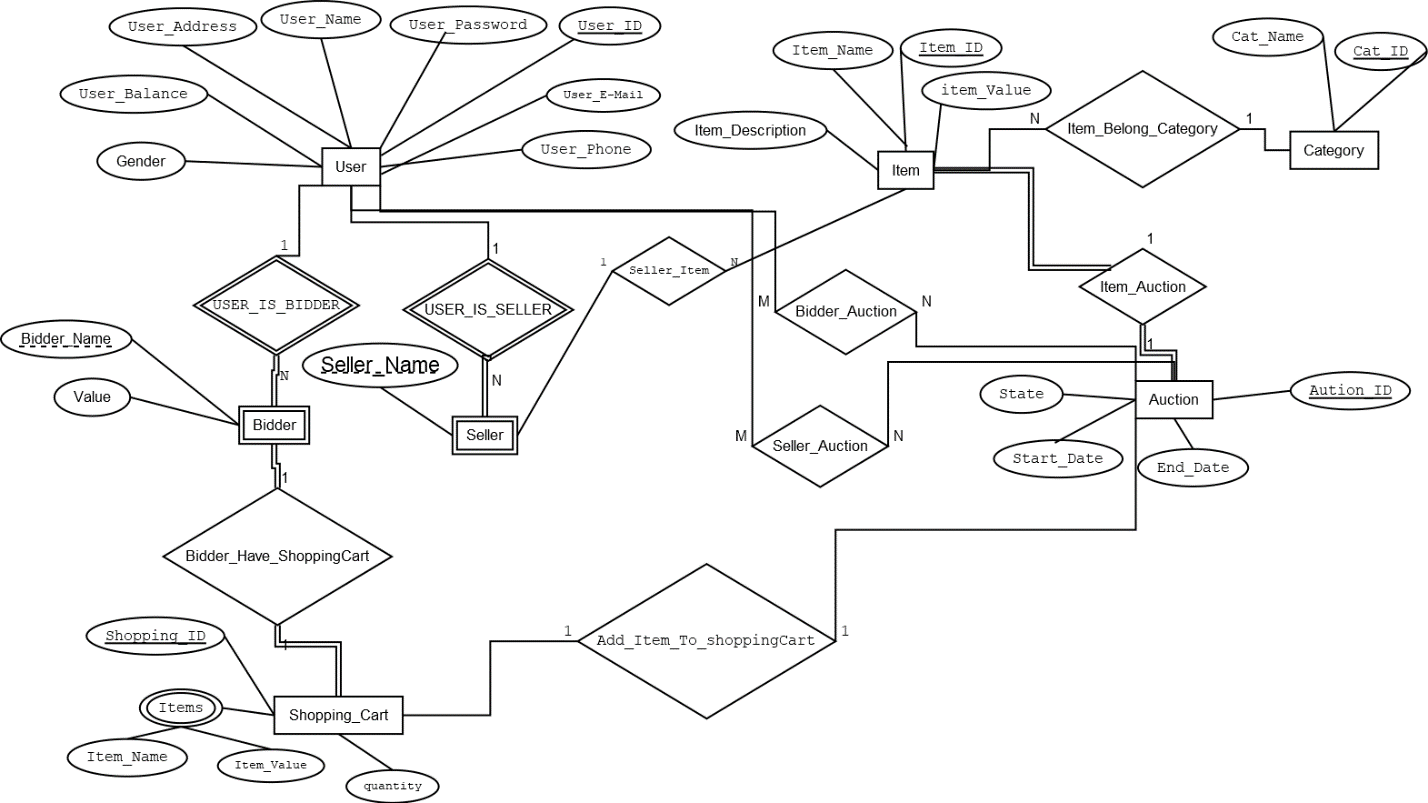
5-Auction:



-Bidder is a multivalued because a lot of user can bid in the same item with its bigger value and his id

-State: have 2 value open and closed

1. ER-Diagram:



1. Assumption Relations:

* (Bidder\_Have\_ShoppingCart) one shopping cart belong to one bidder but bidder have a lot of shopping cart
* (Add\_Item\_To\_ShoppingCart) add Auction’s item to shopping cart of largest bidder.
* (seller auction) seller can perform more than auction and auction performed by many auctions on various of items
* (bidder auction) bidder can bid on more than auction’s item in the same time
* (item Auction) one to one because one item belongs to one auction only
* (item\_Belongs\_Category) one item belongs to one category and one category include a lot of items

(4)Scripts(Querys):

create table USERS(

USER\_ID Number Primary key,

Name varchar(14),

Phone Number(11),

Address varchar(50),

Balance Number,

E\_Mail varchar(20),

Password varchar(100),

gender varchar(10)

);

create table BIDDERS(

User\_ID Number ,

Bidder\_Name Varchar(14) primary key,

Value NUMBER

);

create table SELLERS(

User\_ID Number ,

Seller\_Name Varchar(14) primary key

);

create table SHIPPING\_CARTS(

ship\_id Number primary key,

Quantity Number,

Bidder\_ID Number

);

create table SHIPPING\_ITEMS(

ship\_id Number ,

itm\_Name varchar(14) primary key ,

Value Number,

Auc\_ID Number

);

create table ITEMS(

ITEM\_ID Number primary key ,

Name varchar(14) ,

Description varchar(50),

Value Number,

Seller\_ID Number,

cat\_Id Number

);

create table CATEGORIES(

CAT\_ID Number primary key ,

Cat\_Name Varchar(10)

);

create table AUCTIONS(

AUC\_ID Number primary key ,

S\_Date DAtE,

E\_Date DATE,

Status varchar(8)

);

create table BIDDER\_AUCTIONS(

AUC\_ID NUMBER ,

USER\_ID Number ,

Value Number,

constraint t\_pk primary key (AUC\_ID,USER\_ID)

);

create table SELLER\_AUCTIONS(

AUC\_ID NUMBER ,

USER\_ID Number ,

itm\_ID Number ,

constraint t2\_pk primary key (AUC\_ID,USER\_ID)

);

alter table bidders

add foreign key (USER\_ID) references USERS(USER\_ID);

alter table sellers

add foreign key (USER\_ID) references USERS(USER\_ID);

alter table SHIPPING\_CARTS

add foreign key (Bidder\_ID) references USERS(USER\_ID);

alter table SHIPPING\_ITEMS

add foreign key(ship\_id) references SHIPPING\_CARTS(ship\_id);

alter table ITEMS

add foreign key(Seller\_ID) references USERS(USER\_ID);

alter table ITEMS

add foreign key(cat\_Id) references CATEGORIES(CAT\_ID);

alter table SHIPPING\_ITEMS

add foreign key(AUC\_ID) references AUCTIONS(AUC\_ID);

alter table SELLER\_AUCTIONS

add foreign key (itm\_ID) references ITEMS(ITEM\_ID);

insert into users(USER\_ID, name, phone, address, balance, e\_mail, password, gender)

values (1,'jack',1141248413,'50st new jersy',5000,'j558@yahoo.com','123456789','male');

insert into users(USER\_ID, name, phone, address, balance, e\_mail, password, gender)

values (2,'sam',018458797,'62st new jersy',5000,'j558@yahoo.com','123456789','male');

insert into users(USER\_ID, name, phone, address, balance, e\_mail, password, gender)

values (3,'maria',0105487,'100 st madint nsr',2500,'maria558@gmail.com','000000001','female');

insert into users(USER\_ID, name, phone, address, balance, e\_mail, password, gender)

values (4,'alison',002579846512,'150 st berlin ',3000,'alio@gm.com','8125458','female');

insert into sellers(seller\_name, user\_id)

Values('jack',1);

insert into sellers(seller\_name, user\_id)

Values('maria',3);

insert into bidders(bidder\_name, user\_id)

Values('sam',2);

insert into bidders(bidder\_name, user\_id)

Values('alison',4);

insert into categories(cat\_id, cat\_name)

Values(1,'cars');

insert into categories(cat\_id, cat\_name)

Values(2,'books');

insert into categories(cat\_id, cat\_name)

Values(3,'Mobiles');

insert into categories(cat\_id, cat\_name)

Values(4,'Computertools(HW)');

insert into items(item\_id, name, description, value, seller\_id, cat\_id)

Values(1,'honda','new car with low used',1000,1,1);

insert into items(item\_id, name, description, value, seller\_id, cat\_id)

Values(2,'KeyBoard','Original Key Board with smart Keys ',500,3,4);