

Project 1

Part 1

CS 527: Databases for Data Science

GROUP 5

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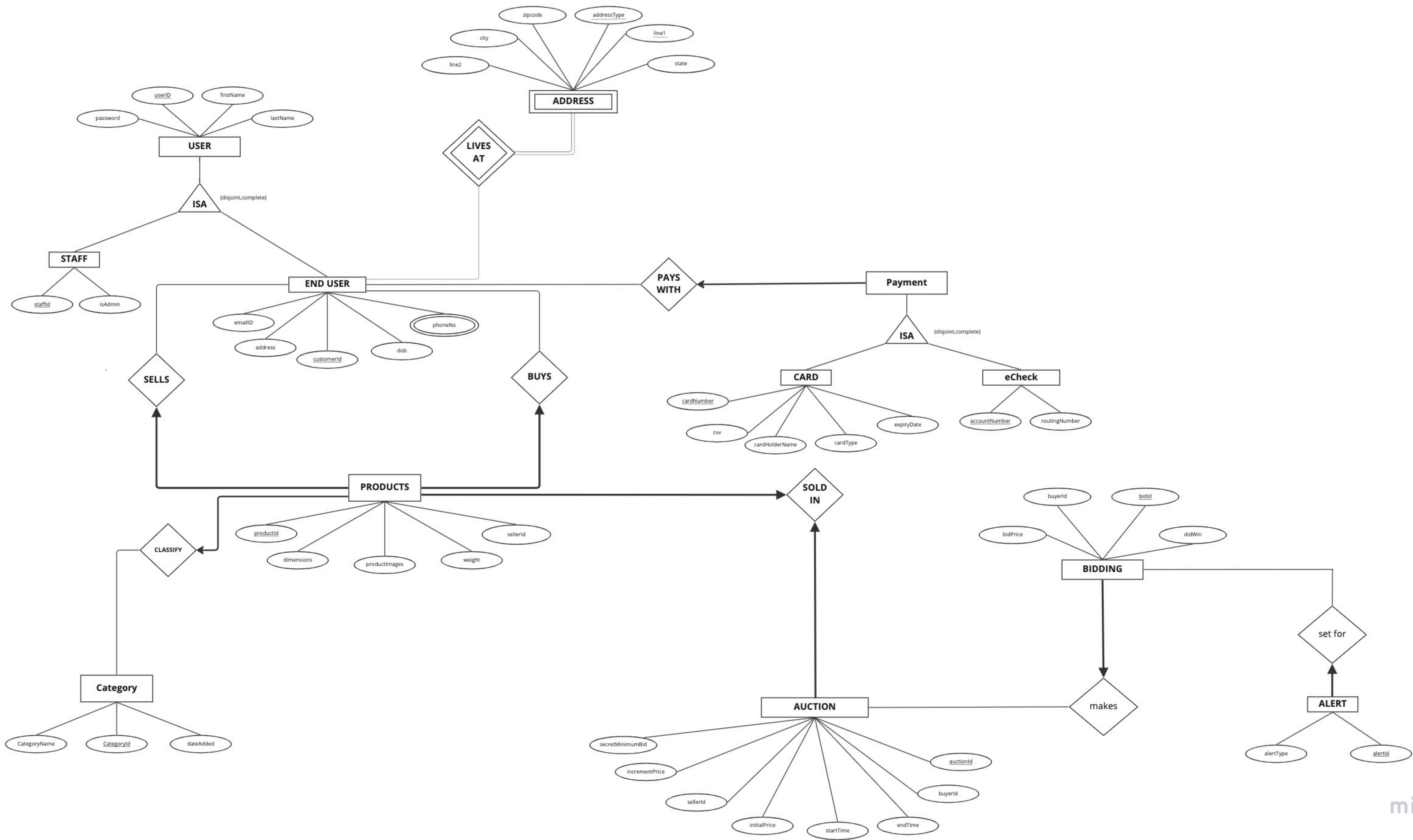
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ER DIAGRAM



RELATIONAL SCHEMA

Staff(

staffID int,
isAdmin int,
firstname varchar(30),
lastname varchar(30),
password char(32), //from User table
primary key(staffID)
);

Enduser(

customerID int,
firstname varchar(30),
lastname varchar(30),
password char(32),
dob date,
address varchar(50),
phoneno char(10),
emailID varchar(30),
firstname varchar(30),
lastname varchar(30),
password char(32) //from User table
primary key(customerID)
);

Address_LivesAt(

customerID int,
city varchar(50),
state varchar(50),
line1 varchar(30),
line2 varchar(30),
zipcode varchar(10),
addressType varchar(30),
foreign key(customerID) references Enduser,
primary key(customerID, line1, addressType)
);

Product(
productId int,
customerId int,
dimensions varchar(10),
categoryId int,
weight int,
productImages varchar(100),
sellerId int,
primary key(productId),
Foreign key(customerId) references Enduser(customerId),
Foreign key(sellerId) references Enduser(customerId),
Foreign key(categoryId) references Category(categoryId)
);

Category(
categoryId int,
categoryName varchar(32),
dataAdded date,
primary key(categoryId)
)

Auction(
auctionId int,
productId int,
buyerId int,
sellerId int,
initialPrice int,
secretMinimumBid int,
incrementPrice int,
startTime datetime,
endTime datetime,
Primary key(auctionId),
Foreign key(productId) references Product(productId)
);

Merging Up ISA relation -

Payments(

paymentId int,
customerId int,
cardHolderName varchar(30),
cardNumber varchar(20),
routingNumber int,
accountNumber varchar(20),
CVV char(3),
cardType varchar(10),
expiryDate date,
Primary key(paymentId),
Foreign key(customerId) references Enduser(customerID)
);

Bidding(

bidId int,
auctionId int,
buyerId int,
bidPrice int,
didWin int,
Primary key(bidId),
Foreign key(auctionId) references Auction(auctionId)
);

Alert_set(

alertId int,
alertType varchar(20),
bidId int,
Primary key(alertId),
Foreign key (bidId) references Bidding(bidId)
);

Assumptions -

1. Product belongs to only one category.
2. It is assumed that the product is always sold.
3. We will be managing issue reporting and customer care as a part of our code logic using isAdmin flag as a privilege indicator.