EzzHawk Auction Site

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01

Introduction

Our project EzzHawk is pragmatically crafted to automate the process of bidding, resulting in elimination of workplace requirements and drastic reduction in physical resources while maintaining the integrity and accessibility of the auction operation to the users a breeze.

02

ER Tables

Entity Relationship Tables forms the foundation of our project in RDBMS

Users

UserId (PK)
FirstName
LastName
Address

Products

ProductId (PK)
ProductName
Starting_Price

Contact_Numbers

UserId (PK , FK)
Phone_No (PK)

Bids

BidId (PK)
UserId (FK)
ProductId (FK)
Bid_amount
Bidding_Time

Results

ProductId (PK,FK)
UserId (FK)
BidId (FK)
Final_Amount
Bidding_Time
No_Of_Bids

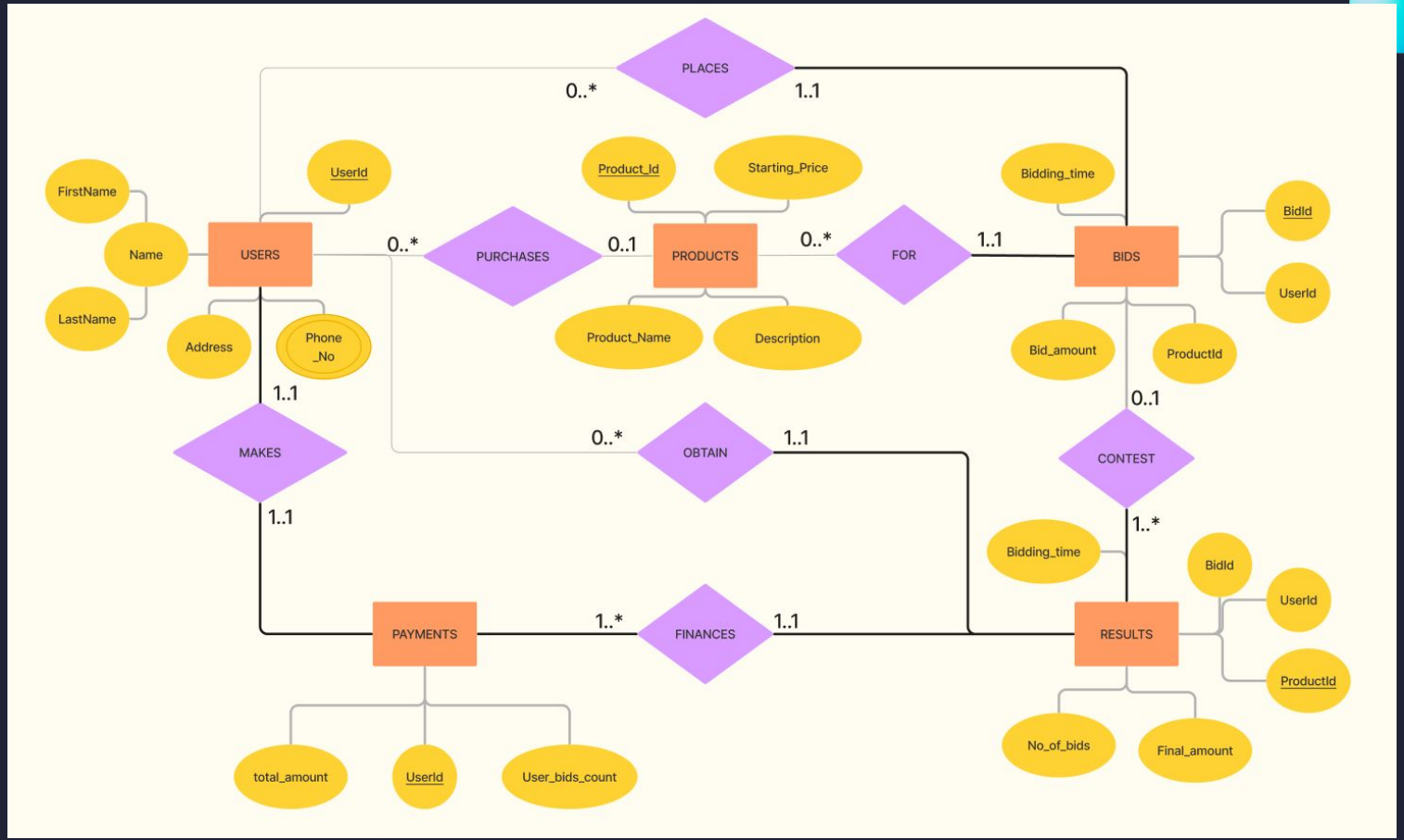
Payments

UserId (PK , FK)
Total_Amount
User_Bids_Count

03

ER Diagram

The Included ER Diagram shows relationship among tables & describes general Schema of logic in our project.


PLACES
0..*
1..1
UserId
FirstName
Name
LastName
USERS
Address
Phone _No
0..*
PURCHASES
0..1
Product_Id
Starting_Price
PRODUCTS
Product_Name
Description
0..*
FOR
1..1
Bidding_time
BIDS
BidId
UserId
Bid_amount
ProductId
1..1
MAKES
0..*
OBTAIN
1..1
0..1
CONTEST
1..1
1..*
Bidding_time
BidId
UserId
ProductId
RESULTS
No_of_bids
Final_amount
PAYMENTS
1..*
FINANCES
1..1
total_amount
UserId
User_bids_count

04

Normalization

Implemented to minimize redundancy in Relations.

Users

1 NF : ✅
2NF : ❌
3 NF : ❌

Products

1 NF : ✅
2NF : ✅
3 NF : ✅

Payments

1 NF : ✅
2NF : ✅
3 NF : ✅

Bids

1 NF : ✅
2NF : ✅
3 NF : ✅

Results

1 NF : ✅
2NF : ✅
3 NF : ✅

05

PL - SQL

Implementation of PL SQL by means of Procedures

Add Bid

Adds the Proposed Bids for all Items.

Check Time

Validates the bid for final Result

Update Payments

Compiles Final Transactions

Create Bill

Generate Receipt for Buyers

06

Conclusion

This project focused on providing an efficiently working relational database model for the purpose of automating the process of competing in an auction.

Benefits

Reduction in requirement of Physical Resources & complete process can be shifted online.

Learning

Problem solving by Reverse Engineering & Working in unison.

Future Enhancements

Payment Integration & Delivery Options