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CREATE TABLE IF NOT EXISTS Users (
    email TEXT PRIMARY KEY NOT NULL,
    password TEXT NOT NULL
);

CREATE TABLE IF NOT EXISTS Helpdesk (
    email TEXT PRIMARY KEY NOT NULL,
    position TEXT NOT NULL,
    FOREIGN KEY (email) REFERENCES Users (email)
);

CREATE TABLE IF NOT EXISTS Request (
    request_id TEXT PRIMARY KEY NOT NULL,
    sender_email TEXT NOT NULL, --For key
    helpdesk_staff_email TEXT NOT NULL,
    request_type TEXT NOT NULL, --Possibly integer
    request_desc TEXT NOT NULL,
    request_status TEXT NOT NULL,
    FOREIGN KEY (sender_email) REFERENCES Users (email),
    FOREIGN KEY (helpdesk_staff_email) REFERENCES Users (email)
);

CREATE TABLE IF NOT EXISTS bidders (
    email TEXT PRIMARY KEY,
    first_name TEXT NOT NULL,
    last_name TEXT NOT NULL,
    gender TEXT NOT NULL,
    age integer NOT NULL,
    home_address_id TEXT NOT NULL,
    major TEXT NOT NULL,
    FOREIGN KEY (home_address_id) REFERENCES Address (address_ID),
    FOREIGN KEY (email) REFERENCES Users (email)
);

CREATE TABLE IF NOT EXISTS Credit_Cards (
    credit_card_num TEXT PRIMARY KEY,
    card_type TEXT NOT NULL,
    expire_month INTEGER NOT NULL,
    expire_year INTEGER NOT NULL,
    security_code TEXT NOT NULL,
    owner_email TEXT NOT NULL,
    FOREIGN KEY (owner_email) REFERENCES Users (email)
);

CREATE TABLE IF NOT EXISTS Address (
    address_ID TEXT PRIMARY KEY,
    zipcode TEXT NOT NULL,

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street_num TEXT NOT NULL,
street_name TEXT NOT NULL
);

CREATE TABLE Zipcode_Info (
  zipcode TEXT PRIMARY KEY,
  city TEXT NOT NULL,
  state TEXT NOT NULL
);

CREATE TABLE Sellers (
  email TEXT PRIMARY KEY NOT NULL,
  bank_routing_number TEXT NOT NULL,
  bank_account_number TEXT NOT NULL,
  balance REAL NOT NULL,
  FOREIGN KEY (email) REFERENCES Users (email)
);

CREATE TABLE Local_Vendors (
  email TEXT PRIMARY KEY,
  business_name TEXT NOT NULL,
  business_address_id TEXT NOT NULL,
  customer_service_phone_number TEXT NOT NULL,
  FOREIGN KEY (email) REFERENCES Sellers (email),
  FOREIGN KEY (business_address_id) REFERENCES Address (address_ID)
);

CREATE TABLE Categories (
  parent_category TEXT NOT NULL,
  category_name TEXT PRIMARY KEY,
  FOREIGN KEY (parent_category) REFERENCES Categories(category_name)
);

CREATE TABLE Auction_Listings (
  Seller_Email TEXT NOT NULL,
  Listing_ID INTEGER NOT NULL,
  Category TEXT NOT NULL,
  Auction_Title TEXT NOT NULL,
  Product_Name TEXT NOT NULL,
  Product_Description TEXT NOT NULL,
  Quantity INTEGER NOT NULL,
  Reserve_Price TEXT NULL,--MAYBE CHANGE DATA TYPE
  Max_bids INTEGER NOT NULL,
  Status INTEGER NOT NULL,
  PRIMARY KEY (Seller_Email, Listing_ID),
  FOREIGN KEY (Seller_Email) REFERENCES Sellers(email)

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);

ALTER TABLE Auction_Listings ADD COLUMN Reasoning;

CREATE TABLE Recently_Viewed (
  Seller_Email TEXT NOT NULL,
  Listing_ID INTEGER NOT NULL,
  Category TEXT NOT NULL,
  Auction_Title TEXT NOT NULL,
  Product_Name TEXT NOT NULL,
  Product_Description TEXT NOT NULL,
  Quantity INTEGER NOT NULL,
  Reserve_Price TEXT NULL,--MAYBE CHANGE DATA TYPE
  Max_bids INTEGER NOT NULL,
  Status INTEGER NOT NULL,
  PRIMARY KEY (Seller_Email, Listing_ID),
  FOREIGN KEY (Seller_Email) REFERENCES Sellers(email)
);

ALTER TABLE Auction_Listings ADD COLUMN Remaining_Bids INTEGER;

UPDATE Auction_Listings SET Remaining_Bids = Max_bids;

UPDATE Auction_Listings
SET Remaining_Bids = Max_bids - (
  SELECT COUNT(*)
  FROM Bids
  WHERE Auction_Listings.Listing_ID = Bids.Listing_ID
);

CREATE TABLE Bids (
  Bid_ID INTEGER PRIMARY KEY,
  Seller_Email TEXT NOT NULL,
  Listing_ID INTEGER NOT NULL,
  Bidder_Email TEXT NOT NULL,
  Bid_price REAL NOT NULL,
  FOREIGN KEY (Listing_ID) REFERENCES Auction_Listings(Listing_ID),
  --possibly change referenmce to seller
  FOREIGN KEY (Seller_Email) REFERENCES Sellers(email),
  FOREIGN KEY (Bidder_Email) REFERENCES Bidders(email)
);

CREATE TABLE Transactions (
  Transaction_ID INTEGER PRIMARY KEY,
  Seller_Email TEXT NOT NULL,
  Listing_ID INTEGER NOT NULL,

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    Buyer_Email TEXT NOT NULL,
    Date TEXT NOT NULL,
    Payment REAL NOT NULL,
    FOREIGN KEY (Seller_Email, Listing_ID) REFERENCES
Auction_Listings(Seller_Email, Listing_ID),--check this
    FOREIGN KEY (Buyer_Email) REFERENCES Bidders(email)
);

CREATE TABLE Rating (
    Bidder_Email TEXT,
    Seller_Email TEXT,
    Date DATE,
    Rating_Desc TEXT,
    Rating INTEGER,
    PRIMARY KEY (Bidder_Email, Seller_Email, Date),
    FOREIGN KEY (Bidder_Email) REFERENCES bidders(email),
    FOREIGN KEY (Seller_Email) REFERENCES sellers(email)
);

SELECT C.parent_category
FROM Categories C
WHERE C.parent_category NOT IN (SELECT c2.category_name FROM Categories c2);

SELECT C.category_name
FROM Categories C
WHERE C.parent_category='Root';

Select * From Users WHERE email='test@gmail.com';

DELETE FROM Users;

DELETE FROM Auction_Listings;

DELETE FROM Helpdesk;

DELETE FROM Categories;

DELETE FROM Sellers;

DELETE FROM bidders;

DELETE FROM Credit_Cards;

DELETE FROM Bids;

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DELETE FROM Local_Vendors;
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DELETE FROM Rating;
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DELETE FROM Request;
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DELETE FROM Transactions;
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DELETE FROM Zipcode_Info;
```

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delete FROM Address;
```

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DELETE FROM BIDDERS;
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