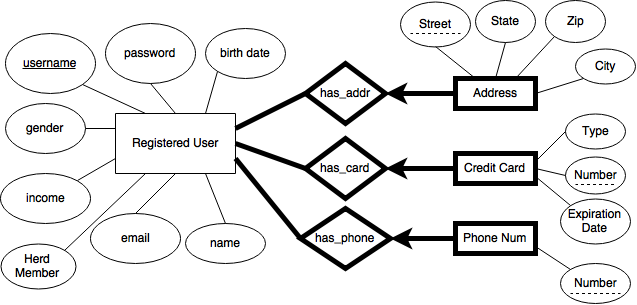
**4. Registered Users**

****



CREATE TABLE Registered\_Users

(

Name CHAR(30) NOT NULL,

Email CHAR(50) NOT NULL,

Herd\_Member BIT,

Income INTEGER,

Gender CHAR(6),

Username CHAR(20),

Password CHAR (20) NOT NULL,

Date\_of\_Birth DATE,

UNIQUE (Email, Username),

PRIMARY KEY (Username)

);

CREATE TABLE User\_Address

(

Username CHAR(20),

Street TEXT,

Zipcode CHAR(10),

PRIMARY KEY (Username, Street, Zipcode),

FOREIGN KEY (Username) REFERENCES Registered\_Users (Username)

ON DELETE CASCADE,

FOREIGN KEY (Zipcode) REFERENCES Zipcodes\_Areas (Zipcode)

ON DELETE CASCADE

);

CREATE TABLE Zipcodes\_Areas

(

Zipcode CHAR(10),

City CHAR(20) NOT NULL,

State CHAR(20) NOT NULL,

PRIMARY KEY(Zipcode)

);

CREATE TABLE User\_Credit\_Card

(

Username CHAR(20),

Number CHAR(20),

Type CHAR(20) NOT NULL,

Expiration\_Date DATE NOT NULL,

UNIQUE (Number, Type),

PRIMARY KEY (Username, Number),

FOREIGN KEY (Username) REFERENCES Registered\_Users (Username)

ON DELETE CASCADE

);

CREATE TABLE Phone\_Number

(

Username CHAR(20),

Phone\_Number CHAR(20),

PRIMARY KEY (Username, Phone\_Number),

FOREIGN KEY (Username) REFERENCES Registered\_Users (Username)

ON DELETE CASCADE

);

Registered Users Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Username | Name | Email | Herd\_Member | Income | Gender | Password | Date\_of\_Birth |

Address Table

|  |  |  |
| --- | --- | --- |
| Username | Street | ZIP\_Code |

Zipcode Table

|  |  |  |
| --- | --- | --- |
| Zipcode | City | State |

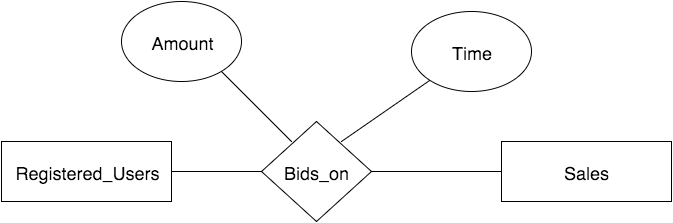
Credit Card Table

|  |  |  |  |
| --- | --- | --- | --- |
| Username | Type | Number | Expiration\_Date |

Phone Number Table

|  |  |
| --- | --- |
| Username | Number |

**9. Bidding**



CREATE TABLE Bidding

(

Username CHAR(20),

ItemID CHAR(40),

Amount INTEGER,

Time TIMESTAMP,

PRIMARY KEY (Username, ItemID)

FOREIGN KEY (Username) REFERENCES Registered\_Users (Username)

ON DELETE CASCADE,

FOREIGN KEY (ItemID) REFERENCES Items (IID)

ON DELETE CASCADE

);