Constraints

Users Table

* user\_id INT Primary Key,
* user\_type Varchar(6) NOT NULL
* first\_name varchar(30) NOT NULL
* last\_name varchar(30) NOT NULL
* address varchar(244) NOT NULL
* zip\_code int NULL
* phone\_num int NULL

Livestock Table

* livestock\_id INT Primary Key CASSCADE
* Owner\_id INT Foreign Key
* Born\_Date DATETIME NOT NULL
* Sub\_type VARCHAR NOT NULL
* Health\_Status CHAR NOT NULL
* Notes STRING NULL;
* Weight INT (MIGHT BE FLOAT LATER)
  + CHECK ( NOT EXISTS ( SELECT \* FROM CATTLE WHERE CATTLE.Weight < 0 AND CATTLE.Weight > 10000 ));
* Market\_Date DATETIME NULL;
* Goal\_sale\_price INT (FLOAT MIGHT BE BETTER) NULL;
  + CHECK ( NOT EXISTS ( SELECT \* FROM CATTLE WHERE CATTLE.Goal\_sale\_price <= 0 ));
* Sale\_price INT (FLOAT MIGHT BE BETTER) NULL;
  + CHECK ( NOT EXISTS ( SELECT \* FROM CATTLE WHERE CATTLE.Sale\_price <= 0 ));
* Location INT Foreign Key;

Medical

* Livestock\_id INT FOREIGN KEY
* Medication\_name STRING NOT NULL
  + PRIMARY KEY IS LIVESTOCK\_ID AND MEDICATION\_NAME together
* Start\_Date datetime NOT NULL
* End\_DATE DATETIME NOT NULL
* Interval String;

VetVisit

* Vacc\_id INT Primary key;
* animal\_id INT Foreign Key;
* Visit\_date Datetime Not Null;
  + The visit\_date and livestock\_id is the primary key.
* Vet\_name String not null;
* Cost INT NOT NULL;
  + CHECK ( NOT EXISTS ( SELECT \* FROM VetVisit WHERE VetVisit.Cost < 0 ));
* Reason String Null;
* Notes String Null;

Calves

* Calf\_id int Foreign Key;
* Type varchar Not Null;
* Couw\_parent\_id INT NOT NULL;
* Sired\_parent\_id INT NOT NULL;
* Vaccine\_complete Boolean;
* Auto\_water\_complete Boolean;
* Feader\_complete Boolean;

Pastures

* Nickname string;
* Pasture\_id INT Primary Key;
* Owner\_id INT Foreign key;
* Notes string;

Pasture\_maintenance

* Pasture\_id int Foreign key;
* Type string;
  + Constraint that the pasture\_id and type is primary key;
* Cost int NOT NULL;
* Note string;