Pharmaceutical Inventory Management System Design

CREATE TABLE `drug` (  
 `drug\_id` int(11) NOT NULL AUTO\_INCREMENT,  
 `generic\_name` varchar(20),  
 `brand\_name` varchar(20),

`dosage\_form` varchar(11),  
 `manufacturer` varchar(50),

`expiration` date,

`upperbound` int(11),

`lowerbound` int(11),  
 PRIMARY KEY (`drug\_id`)  
);

CREATE TABLE `warehouse` (  
 `warehouse\_id` int(11) NOT NULL AUTO\_INCREMENT,  
 `street` varchar(20),  
 `city` varchar(11),

`state` varchar(5),  
 `zip\_code` varchar(11),

`phone` varchar(10),  
 PRIMARY KEY (`warehouse\_id`)  
);

CREATE TABLE `user` (

`user\_name` char(20),

`role\_id` char(11),

`password` varchar(20),

PRIMARY KEY (`user\_name`),

FOREIGN KEY (`role\_id`) REFERENCES `role` (`role\_id`)

);

CREATE TABLE `role` (  
 `role\_id` char(11) NOT NULL ,  
 `role\_name` varchar(20),  
 PRIMARY KEY (`role\_id`)  
);

CREATE TABLE `drug\_warehouse` (

`drug\_id` int(11) NOT NULL,

`warehouse\_id` int(11) NOT NULL,

`quantity` int(11),

PRIMARY KEY (`drug\_id`, `warehouse\_id`),

FOREIGN KEY (`drug\_id`) REFERENCES `drug` (`drug\_id`),

FOREIGN KEY (`warehouse\_id`) REFERENCES `warehouse` (`warehouse\_id`)

);

CREATE TABLE `checking\_history` (

`checking\_id` int(11) NOT NULL AUTO\_INCREMENT,

`drug\_id` int(11) NOT NULL,

`warehouse\_id` int(11) NOT NULL,

`user\_name` char(20) NOT NULL,

`quantity` int(11),

`checking\_date` date,

`if\_checked\_in` Boolean NOT NULL,

PRIMARY KEY (`checking\_id`),

FOREIGN KEY (`drug\_id`) REFERENCES `drug` (`drug\_id`),

FOREIGN KEY (`warehouse\_id`) REFERENCES `warehouse` (`warehouse\_id`),

FOREIGN KEY (`user\_name`) REFERENCES `user` (`user\_name`)

);