create table foodcategories

(

category\_id int auto\_increment

primary key,

category\_name varchar(50) not null,

description text null

);

create table foodcatalog

(

food\_catalog\_id int auto\_increment

primary key,

food\_name varchar(100) not null,

category\_id int null,

description text null,

constraint foodcatalog\_ibfk\_1

foreign key (category\_id) references foodcategories (category\_id)

);

create index category\_id

on foodcatalog (category\_id);

create table units

(

unit\_id int auto\_increment

primary key,

unit\_name varchar(50) not null,

description text null,

food\_category\_id int null,

constraint units\_foodcategories\_category\_id\_fk

foreign key (food\_category\_id) references foodcategories (category\_id)

);

create table users

(

user\_id int auto\_increment

primary key,

username varchar(50) not null,

password varchar(255) not null,

email varchar(100) not null,

full\_name varchar(100) null,

role enum ('admin', 'user') default 'user' null,

created\_at timestamp default CURRENT\_TIMESTAMP null,

updated\_at timestamp default CURRENT\_TIMESTAMP null on update CURRENT\_TIMESTAMP,

constraint email

unique (email),

constraint username

unique (username)

);

create table familygroups

(

group\_id int auto\_increment

primary key,

group\_name varchar(100) not null,

created\_by int null,

created\_at timestamp default CURRENT\_TIMESTAMP null,

column\_name varchar(5) not null,

constraint familygroups\_ibfk\_1

foreign key (created\_by) references users (user\_id)

);

create table familygroupmembers

(

group\_id int not null,

user\_id int not null,

joined\_at timestamp default CURRENT\_TIMESTAMP null,

primary key (group\_id, user\_id),

constraint familygroupmembers\_ibfk\_1

foreign key (group\_id) references familygroups (group\_id),

constraint familygroupmembers\_ibfk\_2

foreign key (user\_id) references users (user\_id)

);

create index user\_id

on familygroupmembers (user\_id);

create index created\_by

on familygroups (created\_by);

create table fooditems

(

food\_id int auto\_increment

primary key,

group\_id int null,

food\_name varchar(100) not null,

unit\_id int null,

quantity int not null,

expiry\_date date null,

storage\_location varchar(50) null,

added\_at timestamp default CURRENT\_TIMESTAMP null,

updated\_at timestamp default CURRENT\_TIMESTAMP null on update CURRENT\_TIMESTAMP,

food\_catalog\_id int null,

constraint fooditems\_foodcatalog\_food\_catalog\_id\_fk

foreign key (food\_catalog\_id) references foodcatalog (food\_catalog\_id),

constraint fooditems\_ibfk\_1

foreign key (group\_id) references familygroups (group\_id),

constraint fooditems\_ibfk\_3

foreign key (unit\_id) references units (unit\_id)

);

create table foodhistory

(

history\_id int auto\_increment

primary key,

food\_id int not null,

group\_id int not null,

quantity int not null,

unit\_id int not null,

action varchar(50) not null,

action\_date timestamp default CURRENT\_TIMESTAMP null,

constraint foodhistory\_ibfk\_1

foreign key (food\_id) references fooditems (food\_id),

constraint foodhistory\_ibfk\_2

foreign key (group\_id) references familygroups (group\_id),

constraint foodhistory\_ibfk\_3

foreign key (unit\_id) references units (unit\_id)

);

create index food\_id

on foodhistory (food\_id);

create index group\_id

on foodhistory (group\_id);

create index unit\_id

on foodhistory (unit\_id);

create index group\_id

on fooditems (group\_id);

create index idx\_orders\_food\_catalog\_id

on fooditems (food\_catalog\_id);

create index idx\_orders\_unit\_id

on fooditems (unit\_id);

create table mealplans

(

plan\_id int auto\_increment

primary key,

group\_id int null,

plan\_name varchar(100) not null,

start\_date date null,

end\_date date null,

created\_by int null,

created\_at timestamp default CURRENT\_TIMESTAMP null,

constraint mealplans\_ibfk\_1

foreign key (group\_id) references familygroups (group\_id),

constraint mealplans\_ibfk\_2

foreign key (created\_by) references users (user\_id)

);

create index created\_by

on mealplans (created\_by);

create index group\_id

on mealplans (group\_id);

create table notifications

(

notification\_id int auto\_increment

primary key,

user\_id int null,

message text not null,

notification\_type enum ('EXPIRED', 'LOW\_QUANTITY') null,

created\_at timestamp default CURRENT\_TIMESTAMP null,

is\_read tinyint(1) default 0 null,

food\_id int null,

constraint foodItem\_\_\_fk

foreign key (food\_id) references fooditems (food\_id),

constraint notifications\_ibfk\_1

foreign key (user\_id) references users (user\_id)

);

create index user\_id

on notifications (user\_id);

create table recipes

(

recipe\_id int auto\_increment

primary key,

recipe\_name varchar(100) not null,

description text null,

instructions text not null,

prep\_time int null,

cook\_time int null,

created\_by int null,

created\_at timestamp default CURRENT\_TIMESTAMP null,

constraint recipes\_ibfk\_1

foreign key (created\_by) references users (user\_id)

);

create table mealplandetails

(

plan\_detail\_id int auto\_increment

primary key,

plan\_id int null,

recipe\_id int null,

meal\_date date null,

meal\_type enum ('breakfast', 'lunch', 'dinner') null,

constraint mealplandetails\_ibfk\_1

foreign key (plan\_id) references mealplans (plan\_id),

constraint mealplandetails\_ibfk\_2

foreign key (recipe\_id) references recipes (recipe\_id)

);

create index plan\_id

on mealplandetails (plan\_id);

create index recipe\_id

on mealplandetails (recipe\_id);

create table recipeingredients

(

recipe\_id int not null,

food\_catalog\_id int not null,

quantity int not null,

unit\_id int null,

primary key (recipe\_id, food\_catalog\_id),

constraint recipeingredients\_ibfk\_1

foreign key (recipe\_id) references recipes (recipe\_id),

constraint recipeingredients\_ibfk\_2

foreign key (food\_catalog\_id) references foodcatalog (food\_catalog\_id),

constraint recipeingredients\_ibfk\_3

foreign key (unit\_id) references units (unit\_id)

);

create index food\_id

on recipeingredients (food\_catalog\_id);

create index idx\_ingredient\_unit\_id

on recipeingredients (unit\_id);

create index created\_by

on recipes (created\_by);

create table shoppinglists

(

list\_id int auto\_increment

primary key,

group\_id int null,

list\_name varchar(100) not null,

created\_by int null,

created\_at timestamp default CURRENT\_TIMESTAMP null,

start\_date date null,

end\_date date null,

Status enum ('DRAFT', 'PENDING', 'DONE') null,

constraint shoppinglists\_ibfk\_1

foreign key (group\_id) references familygroups (group\_id),

constraint shoppinglists\_ibfk\_2

foreign key (created\_by) references users (user\_id)

);

create table shoppinglistitems

(

list\_item\_id int auto\_increment

primary key,

list\_id int null,

food\_id int null,

food\_name varchar(100) null,

quantity int not null,

unit\_id int null,

status varchar(20) null,

purchased\_by int null,

purchased\_at timestamp null,

constraint shoppinglistitems\_ibfk\_1

foreign key (list\_id) references shoppinglists (list\_id)

on delete cascade,

constraint shoppinglistitems\_ibfk\_2

foreign key (food\_id) references foodcatalog (food\_catalog\_id),

constraint shoppinglistitems\_ibfk\_3

foreign key (purchased\_by) references users (user\_id),

constraint shoppinglistitems\_ibfk\_4

foreign key (unit\_id) references units (unit\_id)

);

create index food\_id

on shoppinglistitems (food\_id);

create index purchased\_by

on shoppinglistitems (purchased\_by);

create index unit\_id

on shoppinglistitems (unit\_id);

create index created\_by

on shoppinglists (created\_by);

create index group\_id

on shoppinglists (group\_id);