-- CS 500 - Project 1: HealthyMe

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-- Drop Existing Tables  
drop table if exists Users;  
drop table if exists have\_BodyStats;

drop table if exists walk\_Steps;  
drop table if exists perform\_Activities;  
drop table if exists need\_Nutrition;  
drop table if exists need\_Sleep;  
drop table if exists have\_HeartRate;  
  
-- Create New Tables  
create table Users (  
 user\_id integer primary key,  
 first\_name varchar(128) not null,

last\_name varchar(128) not null,

age integer not null,

unique (first\_name, last\_name)  
);

-- Height in ft. Weight in lbs.

create table have\_BodyStats (

stat\_id integer not null,

user\_id integer not null,  
 height numeric not null,

weight numeric not null,

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

foreign key (user\_id) references Users(user\_id) on delete cascade

);

create table walk\_Steps(

step\_id integer not null,

user\_id integer not null,

date\_x date not null,  
 calories\_burned integer not null,

num\_steps integer not null,

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

foreign key (user\_id) references Users(user\_id) on delete cascade

);

create table perform\_Activities (  
 activity\_id integer not null,

user\_id integer not null,

name varchar(128) not null,  
 calories\_burned integer not null,

date\_x date not null,  
 start\_time timestamp not null,

end\_time timestamp not null,

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

foreign key (user\_id) references Users(user\_id) on delete cascade  
);

create table need\_Nutrition (  
 meal\_id integer not null,

user\_id integer not null,

food\_name varchar(128) not null,

meal\_type varchar(64) not null,  
 calories numeric not null,

date\_x date not null,

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

foreign key (user\_id) references Users(user\_id) on delete cascade  
);

create table need\_Sleep (

sleep\_session\_id integer not null,

user\_id integer not null,  
 date\_x date not null,

start\_time timestamp not null,

end\_time timestamp not null,

primary key (sleep\_session\_id, user\_id),

foreign key (user\_id) references Users(user\_id) on delete cascade  
);

create table have\_HeartRate (

hr\_id integer not null,

user\_id integer not null,

heart\_rate integer not null,

date\_x date not null,

start\_time timestamp not null,

end\_time timestamp not null,

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

foreign key (user\_id) references Users(user\_id) on delete cascade  
);