**Team Name:**

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CREATE TABLE IF NOT EXISTS Users (

user\_id int(11) NOT NULL AUTO\_INCREMENT,

first\_name varchar(50) NOT NULL,

last\_name varchar(50) NOT NULL,

address varchar(95) NOT NULL,

city varchar(35) NOT NULL,

state char(2) NOT NULL,

zipcode varchar(10) NOT NULL,

telephone char(12) NOT NULL,

email varchar(255) NOT NULL,

account\_created datetime DEFAULT CURRENT\_TIMESTAMP,

credit\_card char(16) NOT NULL, # keep account history

purchase\_rating int(1) NOT NULL, # active status in terms of making purchases

PRIMARY KEY (user\_id)

#Can connect with other users

#Can post message on page

#Can follow up on Wall

#Can like or comment on post

#Can create group

#Can make purchase

);

CREATE TABLE IF NOT EXISTS Preferences (

user\_id int(11) NOT NULL,

ad\_type varchar(50) NOT NULL,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

CREATE TABLE IF NOT EXISTS Groups (

group\_id int(11) NOT NULL AUTO\_INCREMENT,

group\_name varchar(50) NOT NULL,

type varchar(50) NOT NULL,

owner\_id int(11) NOT NULL,

PRIMARY KEY (group\_id),

FOREIGN KEY (owner\_id) REFERENCES Users(user\_id)

);

CREATE TABLE IF NOT EXISTS Pages (

page\_id int(11) NOT NULL AUTO\_INCREMENT,

owner\_id int(11),

group\_id int(11),

post\_count int DEFAULT 0,

PRIMARY KEY (page\_id),

FOREIGN KEY (owner\_id) REFERENCES Users(user\_id),

FOREIGN KEY (group\_id) REFERENCES Groups(group\_id)

);

CREATE TABLE IF NOT EXISTS Posts (

page\_id int(11) NOT NULL,

post\_id int(11) NOT NULL AUTO\_INCREMENT,

author\_id int(11) NOT NULL,

date\_created datetime DEFAULT CURRENT\_TIMESTAMP,

content text,

comment\_count int DEFAULT 0,

PRIMARY KEY (post\_id),

FOREIGN KEY (page\_id) REFERENCES Pages (page\_id),

FOREIGN KEY (author\_id) REFERENCES Users (user\_id)

);

CREATE TABLE IF NOT EXISTS Comments (

post\_id int(11) NOT NULL,

comment\_id int(11) NOT NULL AUTO\_INCREMENT,

author\_id int(11) NOT NULL,

date\_created datetime DEFAULT CURRENT\_TIMESTAMP,

content text NOT NULL,

PRIMARY KEY (comment\_id),

FOREIGN KEY (author\_id) REFERENCES Users(user\_id),

FOREIGN KEY (post\_id) REFERENCES Posts (post\_id)

);

CREATE TABLE IF NOT EXISTS Messages (

message\_id int(11) NOT NULL AUTO\_INCREMENT,

date\_sent datetime DEFAULT CURRENT\_TIMESTAMP,

subject varchar(50) NOT NULL,

content text NOT NULL,

sender int(11) NOT NULL,

receiver int(11) NOT NULL,

PRIMARY KEY (message\_id),

FOREIGN KEY (sender) REFERENCES Users(user\_id),

FOREIGN KEY (receiver) REFERENCES Users(user\_id)

);

CREATE TABLE IF NOT EXISTS Friends (

friend1 int(11) NOT NULL,

friend2 int(11) NOT NULL,

PRIMARY KEY (friend1, friend2),

FOREIGN KEY (friend1) REFERENCES Users(user\_id),

FOREIGN KEY (friend2) REFERENCES Users(user\_id)

);

CREATE TABLE IF NOT EXISTS LikedPosts (

user\_id int(11) NOT NULL,

post\_id int(11) NOT NULL,

PRIMARY KEY (user\_id, post\_id),

FOREIGN KEY (user\_id) REFERENCES Users(user\_id),

FOREIGN KEY (post\_id) REFERENCES Posts(post\_id)

);

CREATE TABLE IF NOT EXISTS LikedComments (

user\_id int(11) NOT NULL,

comment\_id int(11) NOT NULL,

PRIMARY KEY (user\_id, comment\_id),

FOREIGN KEY (user\_id) REFERENCES Users(user\_id),

FOREIGN KEY (comment\_id) REFERENCES Comments(comment\_id)

);

CREATE TABLE IF NOT EXISTS GroupMembers (

user\_id int(11) NOT NULL,

group\_id int(11) NOT NULL,

PRIMARY KEY (user\_id, group\_id),

FOREIGN KEY (user\_id) REFERENCES Users(user\_id),

FOREIGN KEY (group\_id) REFERENCES Groups(group\_id)

);

CREATE TABLE IF NOT EXISTS Employees (

employee\_id int(11) NOT NULL,

ssn char(11) NOT NULL,

first\_name varchar(50) NOT NULL,

last\_name varchar(50) NOT NULL,

address varchar(95) NOT NULL,

city varchar(35) NOT NULL,

state char(2) NOT NULL,

zipcode varchar(10) NOT NULL,

telephone char(12) NOT NULL,

date\_started date NOT NULL, # no default exists for date in mysql

hourly\_rate decimal(7,2) NOT NULL,

is\_manager BOOLEAN NOT NULL,

PRIMARY KEY (employee\_id)

);

CREATE TABLE IF NOT EXISTS Advertisements (

advertisement\_id int(11) NOT NULL AUTO\_INCREMENT,

employee\_id int(11) NOT NULL,

type varchar(50) NOT NULL, #(e.g. clothing, computers)

date\_created datetime DEFAULT CURRENT\_TIMESTAMP,

company varchar(50) NOT NULL, #(e.g. Ford, Gap, Google)

item\_name varchar(50) NOT NULL, #(e.g. particular car, article of clothing, smartphone)

content text NOT NULL,

unit\_price decimal(7,2) NOT NULL,

available\_units int NOT NULL,

PRIMARY KEY (advertisement\_id),

FOREIGN KEY (employee\_id) REFERENCES Employees(employee\_id)

);

CREATE TABLE IF NOT EXISTS Sales (

transaction\_id int(11) NOT NULL AUTO\_INCREMENT,

buyer\_id int(11),

date\_sold datetime DEFAULT CURRENT\_TIMESTAMP,

advertisement\_id int(11) NOT NULL,

number\_of\_units int NOT NULL,

overseer\_id int(11),

PRIMARY KEY (transaction\_id),

FOREIGN KEY (advertisement\_id) REFERENCES Advertisements(advertisement\_id),

FOREIGN KEY (buyer\_id) REFERENCES Users (user\_id),

FOREIGN KEY (overseer\_id) REFERENCES Employees (employee\_id)

);

We created tables for Users and Groups. Each of those will have Posts, Pages, and corresponding Comments. Groups have group members and Users are split into regular users and employees.

Users can also have messages and Friends, as well as like posts and comments.

Our site will have advertisements with user preferences, as well as their corresponding sales if a User clicks on an ad.

**Collaboration plan:**

Chaerin Kim will focus on groups, pages, postings, and comments.

Jeonghoon Kim will focus on messaging, searching, liking and unliking postings and comments, and group-related privacy issues.

Bryan Koelbel will focus on all aspects of targeted advertising and sales.