Team Name: Connected

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REGISTER

insert into User Values (11,'first11','last11','address11','city11','NY',10011,'631-568-0011','11@gmail.com','password11','preference11',5,10, 'F');

SIGNING IN

Parameters - password, email

UPDATE User SET LoggedIn='T' WHERE Password='password2' AND Email='email2';

SIGNING OUT

Parameters - email

UPDATE User SET LoggedIn='F' WHERE Email='email2';

Post Message on Personal Page

Parameters - pageId, content

insert into Posts_data Values (11,1,CURDATE(),'content11',0);

Send/Receive message:

Parameters - subject,content, receiver

insert into Messages_data (Date,Subject,Content,Sender,Receiver) values (CURDATE(),'subject test','content test',1,2);

Delete a Message:

Parameters - MessageId

UPDATE Messages_data SET Visible_by_sender='N' WHERE MessageId=11;

Description: The sender and/or receiver can choose to delete the message. However, if deleted by only one user, the other user still has access to it.

Create Group

Parameters - group name, type

```
INSERT INTO Groups_data VALUES (11, 'group11', 'organization', 11);
```

Search for User:

Parameters- Email

```
select * from User where Email ='1@gmail.com';
```

Add User to Group:

Parameters- UserId

```
insert into Joins Values ('accepted',1,2);
```

Make a Post:

Parameters- Content

```
Insert Into Posts_data(PageId, Post_date, Content, Comment_count) Values
(2,CURDATE(),'contentofpost',0);
```

Comment On a post:

Parameters-Content

```
UPDATE Posts_data SET Comment_count=Comment_count+1 WHERE PostId=2;
```

Like a Post:

Parameters - Post-User

```
insert into Likes_data (PostId,UserId) Values (11,3);
```

Likes a Comment:

Parameters - CommentId

```
insert into Likes_data (CommentId, UserId) Values (1,7);
```

```
insert into Comments_data(PostId,Date,Content,Author) Values
(2,CURDATE(),'testcontent',8);
```

Remove User from group:

Parameters - UserId, GroupId

```
delete from Joins where UserId = 6 and GroupId=7;
```

Remove a post:
Parameters - PostId
DELETE
Remove a comment:
Parameters - PostId, CommentId
UPDATE Posts_data SET Comment_count=Comment_count-1 WHERE PostId=2;
delete from Comments_data where CommentId = 11;

Unlike a Post:
Parameters- LikeId
delete from Likes_data where LikeId = 11;

Unlike a Comment:
Parameters- LikeId
delete from Likes_data where LikeId = 11;

Modify a Post:
Parameters - Content, PostId
UPDATE Posts_data SET Content='ModifyPost5' WHERE PostId=5;

Modify a comment:
Parameters - Content, CommentId
UPDATE Comments_data SET Content='ModifyComment5' WHERE CommentId=5;

Delete a Group:
Parameters - GroupId
DELETE FROM Groups_data WHERE GroupId=1;

Rename a Group:
Parameters- Group_name, GroupId
UPDATE Groups_data SET Group_name='RenameGroup10' WHERE GroupId=10;

Join a Group:
Parameters- GroupId

```
INSERT INTO Joins (UserId, GroupId) VALUES (3, 7);
UPDATE Joins SET Stat='accepted' WHERE UserId=3 and GroupId=7;
```

Unjoin a Group:
Parameters - UserId, GroupId

```
DELETE FROM Joins WHERE UserId=3 and GroupId=7;
```

Make a Post on a group page:
Parameters- Content

```
Insert Into Posts_data(PageId, Post_date, Content, Comment_count) Values
(2,CURDATE(),'contentofpost',0);
```

Comment On a post on a group page:
Parameters-Content

```
UPDATE Posts_data SET Comment_count=Comment_count+1 WHERE PostId=2;
```

Like a Post on a group page:
Parameters - Post-User

```
insert into Likes_data (PostId,UserId) Values (11,3);
```

Likes a Comment on a group page:
Parameters - CommentId

```
insert into Likes_data (CommentId, UserId) Values (1,7);
```

Remove a post on a group page:
Parameters- PostId

```
delete from Posts_data where PostId = 6;
```

Remove a comment:
Parameters - comment

```
UPDATE Posts_data SET Comment_count=Comment_count-1 WHERE PostId=2;
delete from Comments_data where CommentId = 11;
```

Unlike a Post:
Parameters- LikeId

```
delete from Likes_data where LikeId = 11;
```

Unlike a Comment:
Parameters- LikeId

```
delete from Likes_data where LikeId = 11;
```

Modify a Post:
Parameters - Content, PostId

```
UPDATE Posts_data SET Content='ModifyPost5' WHERE PostId=5;
```

Modify a comment:
Parameters - Content, CommentId

```
UPDATE Comments_data SET Content='ModifyComment5' WHERE CommentId=5;
```

Add edit delete information for an employee
parameters - Social Security Number

```
update Employee_data set State ='f1' where Social_security_number = 100000001;
delete from Employee_data where Social_security_number = 100000001;
```

Obtain sales report for Particular Month
Parameters- Month

```
select * from Sales_data where Sale_date_time > 2016-11-02;
```

Produce a comprehensive listing of all items being advertised on the site
Parameters-

```
select Type, Company, Item_name, Content, Unit_price, Number_of_available_units
from Advertisements_data;
```

Produce a list of transactions by item name or by user name
Parameters-Item_name or username

```
select * from Sales_data
left join Advertisements_data on Sales_data.AdvertisementId=
Advertisements_data.AdvertisementId
where Item_name ='Car1';
```

OR

```
select * from Sales_data
left join Advertisements_data on Sales_data.AdvertisementId=
Advertisements_data.AdvertisementId
left Join Accounts on Sales_data.Account_number = Accounts.Account_number
left Join User on Accounts.Account_number = User.Account_number
where User.First_name ='first1' and User.Last_name ='last1';
```

Produce a summary listing of revenue generated by a particular item, item type, or customer

Parameters - Item_name

```
SELECT Sales_data.Number_of_units, Advertisements_data.Unit_price FROM Sales_data
LEFT JOIN Advertisements_data ON
Advertisements_data.AdvertisementId=Sales_data.AdvertisementId WHERE Item_name='car1';
```

OR

Parameters - Type of Item

```
SELECT Sales_data.Number_of_units, Advertisements_data.Unit_price FROM Sales_data
LEFT JOIN Advertisements_data ON
Advertisements_data.AdvertisementId=Sales_data.AdvertisementId WHERE Type='car';
```

OR

Parameters - Email

```
SELECT Sales_data.Number_of_units, Advertisements_data.Unit_price FROM
Sales_data LEFT JOIN Advertisements_data ON
Advertisements_data.AdvertisementId=Sales_data.AdvertisementId LEFT JOIN User
ON User.Account_number=Sales_data.Account_number WHERE
User.email='2@gmail.com';
```

Determine which customer representative generated most total revenue

Parameters - None

```
CREATE VIEW MaxE AS SELECT Social_security_number,
Sales_data.Number_of_units * Unit_price AS Revenue FROM Advertisements_data
LEFT JOIN Employee_data ON
Employee_data.Social_security_number=Advertisements_data.EmployeeId
 LEFT JOIN Sales_data ON
Advertisements_data.AdvertisementId=Sales_data.AdvertisementId;

CREATE VIEW BestEmployee AS SELECT Social_security_number, SUM(Revenue)
AS Total FROM MaxE GROUP BY Social_Security_number;

SELECT Social_security_number FROM BestEmployee WHERE Total=(SELECT
MAX(TOTAL) FROM BestEmployee);

DROP VIEW BestEmployee;

DROP VIEW MaxE;
```

NOTE: Drop Views after queries

Determine which customer generated most total revenue
Parameters - None

```
CREATE VIEW MaxC AS SELECT UserId, User.Account_number,
Sales_data.Number_of_units * Unit_price AS Revenue FROM Sales_data
LEFT JOIN User ON User.Account_number=Sales_data.Account_number
LEFT JOIN Advertisements_data ON
Advertisements_data.AdvertisementId=Sales_data.AdvertisementId;

CREATE VIEW BestCustomer AS SELECT UserId, SUM(Revenue) AS TOTAL FROM
MaxC GROUP BY UserId;

SELECT UserId FROM BestCustomer WHERE Total=(SELECT MAX(Total) FROM
BestCustomer);

DROP VIEW BestCustomer;

DROP VIEW MaxC;
```

Produce a list of most active items:
Parameters-

```
select Advertisements_data.Item_name, Advertisements_data.Type,
Advertisements_data.Content, Advertisements_data.Unit_price,
Sales_data.Number_of_units
from Sales_data
left join Advertisements_data on Sales_data.AdvertisementId=
Advertisements_data.AdvertisementId
order by Sales_data.Number_of_units desc
limit 5;
```

Produce a list of customers who have Purchased a particular item

Parameters- Item

```
select User.UserId,User.First_name,User.Last_name,User.Email
from Sales_data
left join Advertisements_data on Sales_data.AdvertisementId=
Advertisements_data.AdvertisementId
left Join Accounts on Sales_data.Account_number = Accounts.Account_number
left Join User on Accounts.Account_number = User.Account_number
where Advertisements_data.AdvertisementId = '2';
```

Produce a list of all items for a company

Parameters- Company_name

```
select * from Advertisements_data where Company='Company1';
```

Create Advertisement:

Parameters - Type, Date, Company, Item_name, Content, Unit_price, Number_of_available_units

```
INSERT INTO Advertisements_data (EmployeeId, Type, Date, Company, Item_name,
Content, Unit_Price, Number_of_available_units) VALUES (100000004, 'Truck',
CURDATE(), 'Company4', 'Truck1', 'New TRUCK', 2500, 20);
```

Delete Advertisement Data:

Parameters - Advertisement

```
UPDATE Advertisements_data SET Active ='N' WHERE AdvertisementId=2;
```

Record a transaction:

Preferences - AdvertisementId, Num units, Account number

```
Insert Into Sales_data( Sale_date_time,
AdvertisementId,Number_of_units,Account_number) values (CURTIME(),2,4,3)
```

Add information for a customer:

Parameters- Firstname,last name address city zipcode telephone email password preferences rating account number

```
insert into User
(First_Name,Last_Name,Address,City,State,Zip_code,Telephone,Email,Password,Preferences,Rating,Account_number,LoggedIn) Values
('first9','last9','address9','city9','NY',10009,'631-568-0009','the9@gmail.com','password9'
,'preference9',9,9, 'F');
```

Edit Customer Information:
Parameters -User, information that you are changing

```
UPDATE User  SET First_name ='changed name' WHERE UserId=2;
```

Produce a mailing list:
Parameters-

```
Select Email from User;
```

Produce a list of item suggestions for a given customer:
Parameters - UserId

```
CREATE VIEW V AS (SELECT DISTINCT A.Type FROM Advertisements_data A LEFT
JOIN Sales_data S ON S.AdvertisementId=A.AdvertisementId LEFT JOIN User U ON
S.Account_number=U.Account_number WHERE U.UserId=1);
```

```
SELECT A.Item_name FROM Advertisements_data A INNER JOIN V V WHERE
A.Type = V.Type;
```

```
DELETE VIEW V;
```

Description: Produce item list based on types of items user has bought in the past.

Purchase one or more copies of an advertised item
Parameters - AdvertisemntId, Account Number, Number_of_units

```
INSERT INTO Sales_data (Sale_date_time, AdvertisementId, Number_of_units,
Account_number) VALUES (CURTIME(), 4, 4, 4);
```

```
UPDATE Advertisements_data SET
Number_of_available_units=Number_of_available_units-COALESCE((SELECT
Number_of_units FROM Sales_data WHERE
Sales_data.AdvertisementId=Advertisements_data.AdvertisementId AND
Sales_data.TransactionId=11),0);
```

Description: User buys a certain number of copies of an item, which then makes the number of available units decrease by the number of units bought.

View User Current Groups:
Parameters - UserId

```
SELECT GroupId FROM Joins WHERE Stat='accepted' and UserId = 1;
```

View Account History:
Parameters - UserId

```
SELECT S.* FROM Sales_data S INNER JOIN User U ON S.Account_number =
U.Account_number WHERE U.UserId=1;
```

View Best Selling Items:
Parameters - None

```
SELECT A.Item_name, COUNT(*) AS Occurences FROM Advertisements_data A
INNER JOIN Sales_data S ON A.AdvertisementId=S.AdvertisementId GROUP BY
Item_name ORDER BY Occurences DESC LIMIT 5;
```

Note: Chose to keep it to the 5 best selling items

Personalized Item Suggestion List:
Parameters: UserId

```
CREATE VIEW V AS (SELECT DISTINCT A.Type FROM Advertisements_data A LEFT
JOIN Sales_data S ON S.AdvertisementId=A.AdvertisementId LEFT JOIN User U ON
S.Account_number=U.Account_number WHERE U.UserId=1);

SELECT A.Item_name FROM Advertisements_data A INNER JOIN V V WHERE
A.Type = V.Type;

DELETE VIEW V;
```

Description: Produce item list based on types of items user has bought in the past.