Inner Circle

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Sql Updated Create Tables:

```
CREATE TABLE User (
     UserId
                      INTEGER,
     LastName
                VARCHAR(10),
     FirstName
                VARCHAR(10),
     Address
                VARCHAR (50),
     City
                VARCHAR(20),
     State
                CHAR(2),
     ZipCode
                INTEGER,
     Telephone
                CHAR(10),
     Email
                VARCHAR(20),
     AcctNum
                INTEGER,
     Created
                DATE,
     CreditCard INTEGER,
     Preferences VARCHAR(50),
     Rating
                      INTEGER,
     PRIMARY KEY (UserId)
);
CREATE TABLE Groups (
     GroupId
                INTEGER,
     Name
                VARCHAR(20),
     Type
                CHAR(3),
     Owner
                      INTEGER,
     MemberCount
                      INTEGER,
     Members
                VARCHAR(10),
```

```
PRIMARY KEY (GroupId),
     FOREIGN KEY (Owner) REFERENCES User(UserId)
);
CREATE TABLE Page (
                INTEGER,
     Pageld
                VARCHAR(20),
     Name
     Owner
                      INTEGER,
     PostCount
                INTEGER,
     PRIMARY KEY (Pageld),
     FOREIGN KEY (Owner) REFERENCES User(UserID)
);
CREATE TABLE Post (
     PostId
                      INTEGER,
     Date
                DATE,
                VARCHAR(255),
     Content
     CommentCount INTEGER,
     Poster
                INTEGER,
     Pageld
                      INTEGER,
     GroupId
                INTEGER,
     LikeCount
                INTEGER,
                VARCHAR(10),
     Likes
     PRIMARY KEY (PostId),
     FOREIGN KEY (Poster) REFERENCES User(UserId),
     FOREIGN KEY (Pageld) REFERENCES Page(Pageld),
     FOREIGN KEY (GroupId) REFERENCES Groups(GroupId)
);
CREATE TABLE Comment (
     Commented INTEGER,
     Date
                DATE.
                CHAR(255),
     Content
     Poster
                INTEGER,
     Post
                INTEGER,
     LikeCount
                INTEGER,
```

```
Likes
                VARCHAR(10),
     PRIMARY KEY(CommentId),
     FOREIGN KEY(Poster) REFERENCES User(UserId),
     FOREIGN KEY(Post) REFERENCES Post(PostId)
);
CREATE TABLE Message (
     Messageld INTEGER,
     Date
                DATE,
     Content
                CHAR(255),
     Sender
                INTEGER,
     Receiver
                INTEGER,
     PRIMARY KEY(MessageId),
     FOREIGN KEY(Sender) REFERENCES User(UserId),
     FOREIGN KEY(Receiver) REFERENCES User(UserId)
);
CREATE TABLE Employee (
SSN
           INTEGER,
StartDate
           DATE,
Hourly
                DECIMAL(10,4),
UserId
           INTEGER,
PRIMARY KEY (SSN),
FOREIGN KEY (UserId) REFERENCES User(UserID)
);
CREATE TABLE Advertisement (
AdId
           INTEGER,
Employeeld INTEGER,
           CHAR(20),
Type
Date
           DATE,
Company
           VARCHAR(30),
ItemName
           VARCHAR(30),
Content
           CHAR(255),
```

```
Category
           CHAR(50),
UnitPrice
           DECIMAL (10,4),
NumUnits
           INTEGER,
PRIMARY KEY (AdId),
FOREIGN KEY (Employeeld) REFERENCES Employee(SSN)
);
CREATE TABLE Sale (
Transld
           INTEGER,
UserId
           INTEGER,
Timestamp DATETIME,
AdId
           INTEGER,
NumUnits
           INTEGER,
           INTEGER,
AcctNum
PRIMARY KEY (Transld),
FOREIGN KEY (AdId) REFERENCES Advertisement(AdId),
FOREIGN KEY(UserId) REFERENCES User(UserId)
);
CREATE TABLE Membership (
     GroupId INTEGER,
     Userld INTEGER,
     PRIMARY KEY(GroupId, UserId),
     FOREIGN KEY (GroupId) REFERENCES Groups(GroupId),
     FOREIGN KEY (UserId) REFERENCES User(UserId)
);
Sql Transactions:
-- USER-LEVEL GENERAL TRANSACTIONS
-- Insert Users
INSERT INTO User (Userld, LastName, FirstName, Address, City, State, ZipCode,
Telephone, Email, AcctNum, Created, CreditCard, Preferences, Rating)
```

VALUES (1, 'Cuadrado', 'Brandon', '857 Peconic Street', 'Ronkonkoma', 'NY', 11779, '6316781956', 'brancuad@gmail.com', 123456789, '2016-11-4', 123456789, ", 0);

INSERT INTO User (Userld, LastName, FirstName, Address, City, State, ZipCode, Telephone, Email, AcctNum, Created, CreditCard, Preferences, Rating)
VALUES (2, 'Cuadrado', 'Antonio', '857 Peconic Street', 'Ronkonkoma', 'NY', 11779, '6316781234', 'brancuad1@gmail.com', 987654321, '2016-11-4', 987654321, ", 0);

INSERT INTO User (Userld, LastName, FirstName, Address, City, State, ZipCode, Telephone, Email, AcctNum, Created, CreditCard, Preferences, Rating)
VALUES (3, 'Champagne', 'Collin', '5 Elm Lane', 'Stony Brook', 'NY', 11790, '6311234567', 'brancuad2@gmail.com', 132425462, '2016-11-4', 132425462, ", 0);

INSERT INTO User (Userld, LastName, FirstName, Address, City, State, ZipCode, Telephone, Email, AcctNum, Created, CreditCard, Preferences, Rating)
VALUES (4, 'Smith', 'John', '5 Elm Lane', 'Stony Brook', 'NY', 11790, '6311234231', 'brancuad3@gmail.com', 132428291, '2016-11-4', 132421912, ", 0);

INSERT INTO User (Userld, LastName, FirstName, Address, City, State, ZipCode, Telephone, Email, AcctNum, Created, CreditCard, Preferences, Rating)
VALUES (5, 'Doe', 'Jane', '6 Elm Lane', 'Stony Brook', 'NY', 11790, '6311234192', 'brancuad4@gmail.com', 132429108, '2016-11-4', 132429108, ", 0);

INSERT INTO User (Userld, LastName, FirstName, Address, City, State, ZipCode, Telephone, Email, AcctNum, Created, CreditCard, Preferences, Rating)
VALUES (6, 'Marsh', 'Dave', '6 Elm Lane', 'Stony Brook', 'NY', 11790, '6317653458', 'brancuad5@gmail.com', 132428131, '2016-11-4', 132428131, ", 0);

INSERT INTO User (Userld, LastName, FirstName, Address, City, State, ZipCode, Telephone, Email, AcctNum, Created, CreditCard, Preferences, Rating)
VALUES (7, 'Melling', 'Stefanie', '1010 Pond Road', 'Ronkonkoma', 'NY', 11779, '6319347183', 'brancuad6@gmail.com', 132283718, '2016-11-4', 132283718, ", 0);

INSERT INTO User (Userld, LastName, FirstName, Address, City, State, ZipCode, Telephone, Email, AcctNum, Created, CreditCard, Preferences, Rating) VALUES (8, 'Smith', 'Steve', '1010 Pond Road', 'Ronkonkoma', 'NY', 11779, '6317461829', 'brancuad6@gmail.com', 132289284, '2016-11-4', 132289284, ", 0);

INSERT INTO User (UserId, LastName, FirstName, Address, City, State, ZipCode, Telephone, Email, AcctNum, Created, CreditCard, Preferences, Rating)
VALUES (9, 'Bunch', 'Rebecca', '81 4th Street', 'St. James', 'NY', 11791, '6319103847', 'brancuad7@gmail.com', 182947182, '2016-11-4', 182947182, ", 0);

INSERT INTO User (Userld, LastName, FirstName, Address, City, State, ZipCode, Telephone, Email, AcctNum, Created, CreditCard, Preferences, Rating) VALUES (10, 'Chan', 'Josh', '81 4th Street', 'St. James', 'NY', 11791, '6317281932', 'brancuad8@gmail.com', 192019281, '2016-11-4', 192019281, ", 0);

-- Insert Personal Pages INSERT INTO Page (Pageld, Name, Owner, PostCount) VALUES (1, 'Brandon Cuadrado', 1, 0);

INSERT INTO Page (Pageld, Name, Owner, PostCount) VALUES (2, 'Antonio Cuadrado', 2, 0);

INSERT INTO Page (Pageld, Name, Owner, PostCount) VALUES (3, 'Collin Champagne', 3, 0);

INSERT INTO Page (Pageld, Name, Owner, PostCount) VALUES (4, 'John Smith', 4, 0);

INSERT INTO Page (Pageld, Name, Owner, PostCount) VALUES (5, 'Jane Doe', 5, 0);

```
INSERT INTO Page (Pageld, Name, Owner, PostCount)
VALUES (6, 'Dave Marsh', 6, 0);
INSERT INTO Page (Pageld, Name, Owner, PostCount)
VALUES (7, 'Stefanie Melling', 7, 0);
INSERT INTO Page (Pageld, Name, Owner, PostCount)
VALUES (8, 'Steve Smith', 8, 0);
INSERT INTO Page (Pageld, Name, Owner, PostCount)
VALUES (9, 'Rebecca Bunch', 9, 0);
INSERT INTO Page (Pageld, Name, Owner, PostCount)
VALUES (10, 'Josh Chan', 10, 0);
-- Search user for Sign in
SELECT *
FROM User
WHERE User.UserId = 1;
-- Post messages in personal pages
INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId)
VALUES (1, '2016-11-04', 'Welcome to InnerCircle!', 0, 1, 1);
-- Update post count of page
UPDATE Page
SET PostCount = 1
WHERE PageId = (SELECT PageId FROM Post WHERE PostId = 1);
INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId)
VALUES (2, '2016-11-04', 'Hello, everyone!', 0, 3, 3);
```

```
UPDATE Page
SET PostCount = 1
WHERE PageId = (SELECT PageId FROM Post WHERE PostId = 2);
INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId)
VALUES (3, '2016-11-04', 'Hi, how are you?', 0, 2, 1);
UPDATE Page
SET PostCount = 2
WHERE PageId = (SELECT PageId FROM Post WHERE PostId = 3);
INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId)
VALUES (4, '2016-11-04', 'I love InnerCircle!', 0, 3, 4);
UPDATE Page
SET PostCount = 1
WHERE PageId = (SELECT PageId FROM Post WHERE PostId = 4);
INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId)
VALUES (5, '2016-11-04', 'This is great!', 0, 5, 6);
UPDATE Page
SET PostCount = 1
WHERE PageId = (SELECT PageId FROM Post WHERE PostId = 5);
-- Send & receive a message
INSERT INTO Message (MessageId, Date, Content, Sender, Receiver)
VALUES (1, '2016-11-04', 'Bruh.', 1, 2);
INSERT INTO Message (MessageId, Date, Content, Sender, Receiver)
```

VALUES (2, '2016-11-04', 'Hello!', 2, 1);

INSERT INTO Message (Messageld, Date, Content, Sender, Receiver) VALUES (3, '2016-11-04', 'How are you?', 1, 2);

INSERT INTO Message (Messageld, Date, Content, Sender, Receiver) VALUES (4, '2016-11-04', 'I am well.', 2, 1);

INSERT INTO Message (Messageld, Date, Content, Sender, Receiver) VALUES (5, '2016-11-04', 'Same here.', 1, 2);

INSERT INTO Message (Messageld, Date, Content, Sender, Receiver) VALUES (6, '2016-11-04', 'Are you going out tonight?', 2, 1);

INSERT INTO Message (MessageId, Date, Content, Sender, Receiver) VALUES (7, '2016-11-04', 'I have plans.', 2, 1);

INSERT INTO Message (Messageld, Date, Content, Sender, Receiver) VALUES (8, '2016-11-04', 'Ok, maybe another time.', 2, 1);

INSERT INTO Message (MessageId, Date, Content, Sender, Receiver) VALUES (9, '2016-11-04', 'Sure.', 2, 1);

INSERT INTO Message (Messageld, Date, Content, Sender, Receiver) VALUES (10, '2016-11-04', 'See you later.', 2, 1);

-- Delete a messageDELETE FROM MessageWHERE MessageId = 1;

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⁻⁻ USERS INTERACT WITH THEIR OWN GROUPS

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-- Create a group INSERT INTO Groups (GroupId, Name, Type, Owner) VALUES (1, 'InnerCircle Founders', 'COM', 1);

INSERT INTO Membership (GroupId, UserId) VALUES(1, 1);

INSERT INTO Groups (GroupId, Name, Type, Owner) VALUES (2, 'Chess Club', 'COM', 2);

INSERT INTO Membership (GroupId, UserId) VALUES(2, 2);

INSERT INTO Groups (GroupId, Name, Type, Owner) VALUES (3, 'Hockey Club', 'COM', 4);

INSERT INTO Membership (GroupId, UserId) VALUES(3, 4);

INSERT INTO Groups (GroupId, Name, Type, Owner) VALUES (4, 'Video Game Fans', 'COM', 5);

INSERT INTO Membership (GroupId, UserId) VALUES(4, 5);

INSERT INTO Groups (GroupId, Name, Type, Owner) VALUES (5, 'Stony Brook Students', 'COM', 4);

```
INSERT INTO Membership (GroupId, UserId)
VALUES(5, 4);
INSERT INTO Groups (GroupId, Name, Type, Owner)
VALUES (6, 'Computing Society', 'COM', 1);
INSERT INTO Membership (GroupId, UserId)
VALUES(6, 1);
INSERT INTO Groups (GroupId, Name, Type, Owner)
VALUES (7, 'Friend Circle', 'PVT', 2);
INSERT INTO Membership (GroupId, UserId)
VALUES(7, 2);
INSERT INTO Groups (GroupId, Name, Type, Owner)
VALUES (8, 'Birthday Planning', 'PVT', 5);
INSERT INTO Membership (GroupId, UserId)
VALUES(8, 5);
INSERT INTO Groups (GroupId, Name, Type, Owner)
VALUES (9, 'Employee Group', 'PVT', 8);
INSERT INTO Membership (GroupId, UserId)
VALUES(9, 8);
INSERT INTO Groups (GroupId, Name, Type, Owner)
VALUES (10, 'Football Team', 'COM', 10);
```

```
INSERT INTO Membership (GroupId, UserId)
VALUES(10, 10);
-- Search for a user and add to group
(SELECT *
FROM User U
WHERE U.Userld = 2);
-- Create group membership
INSERT INTO Membership (GroupId, UserId)
VALUES (1, 2);
-- Make a post to group
INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, GroupId)
VALUES (11, '2016-11-06', 'My first post!', 0, 1, 1);
-- Comment on a post
INSERT INTO Comment (CommentId, Date, Content, Poster, Post)
VALUES (1, '2016-11-06', 'My first comment!', 1, 1);
UPDATE Post
SET CommentCount = 1
WHERE PostId = (SELECT Post FROM Comment WHERE CommentId = 1);
-- Like a post
UPDATE Post
SET Likes = '{2}', LikeCount = 1
WHERE PostId = 1;
-- Like a comment
UPDATE Comment
SET Likes = '{1}', LikeCount = 1
WHERE Commented = 1;
-- Remove a user from a group
DELETE FROM Membership
WHERE GroupId = 1 && UserId = 2;
```

```
-- Remove a post
UPDATE Page
SET PostCount = 0
WHERE PageId = (SELECT PageId FROM Post WHERE PostId = 7);
DELETE FROM Post
WHERE PostId = 7;
-- Remove a comment
UPDATE Post
SET CommentCount = 0
WHERE PostId = (SELECT Post FROM Comment WHERE CommentId = 1);
DELETE FROM Comment
WHERE CommentId = 1;
-- Unlike a post
UPDATE Post
SET Likes = '{}', LikeCount = 0
WHERE PostId = 1;
-- Unlike a comment
UPDATE Comment
SET Likes = '{}', LikeCount = 0
WHERE Commented = 1;
-- Modify a post
UPDATE Post
SET Content = 'I modified this!'
WHERE PostId = 1;
-- Modify a comment
UPDATE Comment
SET Content = 'I modified this too!'
WHERE CommentId = 1;
```

-- Delete a group

DELETE FROM Membership WHERE GroupId = 6;

DELETE FROM Groups WHERE GroupId = 6;

- -- Rename a group UPDATE Groups SET Name = 'Renamed Group' WHERE GroupId = 1;
- -- Employee Inserts
- -- Employee inserts

INSERT INTO Employee (SSN, StartDate, Hourly, UserId) VALUES (123456789, 12/12/2012, 8.00, 1);

INSERT INTO Employee (SSN, StartDate, Hourly, UserId) VALUES (146647383, 10/12/2014, 9.00, 2);

INSERT INTO Employee (SSN, StartDate, Hourly, UserId) VALUES (129999999, 9/1/2013, 10.00, 3);

INSERT INTO Employee (SSN, StartDate, Hourly, UserId) VALUES (900020944, 10/13/2016, 18.00, 4);

INSERT INTO Employee (SSN, StartDate, Hourly, UserId) VALUES (123333489, 12/2/2011, 24.00, 5);

INSERT INTO Employee (SSN, StartDate, Hourly, UserId) VALUES (598743559, 2/22/2012, 15.00, 6);

INSERT INTO Employee (SSN, StartDate, Hourly, UserId) VALUES (100303944, 11/9/2012, 9.00, 7);

INSERT INTO Employee (SSN, StartDate, Hourly, UserId) VALUES (889775743, 9/1/2002, 11.00, 8);

INSERT INTO Employee (SSN, StartDate, Hourly, Userld) VALUES (789111212, 6/6/1946, 21.00, 9);

INSERT INTO Employee (SSN, StartDate, Hourly, UserId) VALUES (123333789, 9/22/2005, 16.00, 10);

-- Advertisement Inserts

INSERT INTO Advertisement(AdId, EmployeeId, Type, Date, Company, ItemName, Content, UnitPrice, NumUnits)

VALUES (1, 123456789, 'Toys', '2016-07-15', 'BuildABear', 'Stuffed Bear', 'Glow in the dark bear!', 30.00, 500);

INSERT INTO Advertisement(AdId, EmployeeId, Type, Date, Company, ItemName, Content, UnitPrice, NumUnits)

VALUES (2, 123456789, 'Toys', '2016-04-15', 'HotWheels', 'Truck Replica', 'Minature Hummer Truck!', 20.00, 1000);

INSERT INTO Advertisement(AdId, EmployeeId, Type, Date, Company, ItemName, Content, UnitPrice, NumUnits)

VALUES (3, 146647383, 'Cars', '2016-03-15', 'Nissan','350z', 'Great gas milage!', 3000.00, 50);

INSERT INTO Advertisement(AdId, EmployeeId, Type, Date, Company, ItemName, Content, UnitPrice, NumUnits)

VALUES (4, 146647383, 'Cars', '2016-12-15', 'Honda', 'Chrysler', '4 Door Vehicle!', 2000.00, 25);

INSERT INTO Advertisement(AdId, EmployeeId, Type, Date, Company, ItemName, Content, UnitPrice, NumUnits)

VALUES (5, 146647383, 'Cars', '2016-12-20', 'Toyota', 'Maxima', 'Manual Stick Shift Available!', 2250.00, 25);

INSERT INTO Advertisement(AdId, EmployeeId, Type, Date, Company, ItemName, Content, UnitPrice, NumUnits)

VALUES (6, 146647383, 'VideoGames', '2016-12-20', 'EAGames', 'Assasins Creed', 'Play as a pirate and conquer the seas!', 25.00, 1000);

INSERT INTO Advertisement(AdId, EmployeeId, Type, Date, Company, ItemName, Content, UnitPrice, NumUnits)

VALUES (7, 146647383, 'VideoGames', '2016-12-10', 'EAGames', 'Tetris', 'Put Blocks Together!', 20.00, 1500);

INSERT INTO Advertisement(AdId, EmployeeId, Type, Date, Company, ItemName, Content, UnitPrice, NumUnits)

VALUES (8, 146647383, 'VideoGames', '2016-12-10', 'TellTale','Walking Dead', 'Fight Zombies!', 20.00, 1500);

INSERT INTO Advertisement(AdId, EmployeeId, Type, Date, Company, ItemName, Content, UnitPrice, NumUnits)

VALUES (9, 146647383, 'VideoGames', '2016-09-10', 'TellTale','Call Of Duty', 'Great MultiPlayer Game!', 15.00, 20);

INSERT INTO Advertisement(AdId, EmployeeId, Type, Date, Company, ItemName, Content, UnitPrice, NumUnits)

VALUES (10, 123456789, 'Toys', '2016-04-15', 'Barbie', 'Ken Doll', 'Authentic Ken Doll!', 5.00, 50000);

-- Record a transaction

INSERT INTO Sale(Transld, Userld, Timestamp, Adld, NumUnits, AcctNum) VALUES (1, 1, '2015-01-01 05:10:40', 1, 1, 1234);

- Delete an AdvertisementDELETE FROM Advertisement WHERE AdId=2;
- -- Update transaction for a customer as a Sales Agent UPDATE Sale SET NumUnits=5 WHERE TransId=1:
- -- Delete transaction for a customer as a Sales Agent DELETE FROM Sale WHERE TransId=1;
- -- Produce customer mailing list SELECT UserId, LastName, FirstName, Email FROM User U WHERE EXISTS(SELECT * FROM Sale S WHERE U.UserId = S.UserId);
- -- Produce a list of item suggestions for a given customer
 SELECT ItemName From (
 SELECT Distinct Type From Advertisement A WHERE EXISTS(SELECT * FROM Sale
 S WHERE S.UserId = 4 AND A.AdId = S.AdId)
) AS B, Advertisement A WHERE A.Type = B.Type;
- -- Purchase one or more copies of an advertised item INSERT INTO Sale(Transld, Userld, Timestamp, Adld, NumUnits, AcctNum) VALUES (2, 2, '2015-04-01 09:19:00', 3, 4, 1235);
- -- A Customer's Current Groups
- -- For each of a customer's account, the account history SELECT * FROM SALE S WHERE S.UserId = 4;
- -- Best Seller List of Items
 SELECT A.AdId, ItemName, U FROM Advertisement A, (
 SELECT AdId, COUNT(AdId) AS U FROM SALE S GROUP BY S.AdId
) As Q WHERE Q.AdId = A.AdId ORDER BY U DESC LIMIT 3;
- -- Personalized item suggested list SELECT ItemName From (SELECT Distinct Type From Advertisement A WHERE EXISTS(SELECT * FROM Sale S WHERE S.UserId = 3 AND A.AdId = S.AdId)) AS B, Advertisement A WHERE A.Type = B.Type;

-- Sales Insert

INSERT INTO Sale(TransId, UserId, Timestamp, AdId, NumUnits, AcctNum) VALUES (1000, 1, '2015-01-01 05:10:40', 1, 1, 1234);

INSERT INTO Sale(TransId, UserId, Timestamp, AdId, NumUnits, AcctNum) VALUES (1001, 2, '2015-04-01 09:19:00', 1, 4, 1235);

INSERT INTO Sale(Transld, Userld, Timestamp, Adld, NumUnits, AcctNum) VALUES (1002, 2, '2016-06-04 06:15:00', 3, 2, 1236);

INSERT INTO Sale(Transld, Userld, Timestamp, Adld, NumUnits, AcctNum) VALUES (1003, 3, '2016-08-12 07:17:00', 3, 1, 1237);

INSERT INTO Sale(TransId, UserId, Timestamp, AdId, NumUnits, AcctNum) VALUES (1004, 3, '2016-09-23 06:43:50', 4, 1, 1238);

INSERT INTO Sale(TransId, UserId, Timestamp, AdId, NumUnits, AcctNum) VALUES (1005, 4, '2016-07-23 09:43:50', 1, 1, 1239);

INSERT INTO Sale(Transld, Userld, Timestamp, Adld, NumUnits, AcctNum) VALUES (1006, 4, '2016-06-22 01:32:50', 5, 1, 1240);

INSERT INTO Sale(Transld, Userld, Timestamp, Adld, NumUnits, AcctNum) VALUES (1007, 4, '2016-05-21 02:11:50', 6, 1, 1241);

INSERT INTO Sale(Transld, Userld, Timestamp, Adld, NumUnits, AcctNum) VALUES (1008, 4, '2016-04-20 04:12:50', 7, 1, 1242);

INSERT INTO Sale(Transld, Userld, Timestamp, Adld, NumUnits, AcctNum) VALUES (1009, 4, '2016-03-27 05:15:50', 3, 1, 1243); -- GROUP TRANSACTIONS -- Join a group INSERT INTO Membership (GroupId, UserId) VALUES(1, 9); -- Unjoin a group **DELETE FROM Membership** WHERE GroupId = 1 AND UserId = 9; -- Make a post on a group page INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId, GroupId, LikeCount) VALUES (12, '2016-11-04', 'Hello World', 0, 2, 5, 1, 0); UPDATE Page SET PostCount = PostCount+1 WHERE PageId = 5; -- Comment on a post on a group page INSERT INTO Comment (CommentId, Date, Content, Poster, Post, LikeCount) VALUES (12,'2016-11-04', 'Content', 2, 12, 0); -- Like a post on a group page UPDATE Post SET LikeCount = LikeCount+1 WHERE PostId = 12; -- Like a comment on a group page UPDATE Comment SET LikeCount = LikeCount+1 WHERE CommentId = 12; -- Unlike a post UPDATE Post SET LikeCount = LikeCount-1 WHERE PostId = 12; -- Unlike a comment UPDATE Comment SET LikeCount = LikeCount-1 WHERE CommentId = 12;

UPDATE Post SET Content = 'new content' WHERE PostId = 12;

-- Modify a post

- -- Modify a commentUPDATE Comment SET Content = 'new content' WHERE CommentId = 12;
- -- Remove one of their posts on a group page DELETE FROM Comment WHERE Post = 12; DELETE FROM Post WHERE PostId = 12;
- -- Remove a comment

 DELETE FROM Comment WHERE CommentId = 12;

-- -----

-- Manager-Level Transactions

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- -- Edit employee UPDATE Employee SET Hourly = 9.00 WHERE SSN = 598743559;
- -- Delete employee
 DELETE FROM Employee WHERE SSN = 598743559;
- -- Obtain a sales report for a particular month
 SELECT * FROM Sale WHERE Sale.Timestamp >= 12/01/2012 AND Sale.Timestamp <= 12/31/2012;
- -- Produce a comprehensive listing of all items being advertised on the site SELECT ItemName FROM Advertisement;
- -- Produce a list of transactions by item name or by user name
 SELECT ItemName FROM Sale, Advertisement WHERE Sale.AdId =
 Advertisement.AdId;
 SELECT LastName, FirstName FROM Sale, User WHERE Sale.UserId = User.UserId;
- -- Produce a summary listing of revenue generated by a particular item, item type, or customer

SELECT ItemName, Type, Userld FROM Advertisement, Sale WHERE Advertisement.AdId = Sale.AdId;

SELECT NumUnits FROM Sale, User WHERE Sale. UserId = User. UserId;

- -- Determine which customer representative generated most total revenue SELECT * FROM (SELECT Employeeld FROM Advertisement A, Sale S WHERE A.AdId = S.AdId) B LIMIT 1;
- -- Determine which customer generated most total revenue SELECT * FROM (SELECT Sale.NumUnits FROM Sale, User WHERE Sale.AcctNum = User.AcctNum) B LIMIT 1;
- -- Produce a list of most active items SELECT* FROM Sale LIMIT 10;
- -- Produce a list of all customers who have purchased a particular item

 SELECT FirstName, LastName FROM User, Sale, Advertisement Where User.AcctNum

 = Sale.AcctNum AND Advertisement.AdId = Sale.AdId;
- -- Produce a list of all items for a given company SELECT Company, ItemName FROM Advertisement WHERE Company = 'Apple';
- -- Comment inserts

INSERT INTO Comment (CommentId, Date, Content, Poster, Post, LikeCount) VALUES (13, 11/2/2006, 'Hello', 1, 2, 4);

INSERT INTO Comment (CommentId, Date, Content, Poster, Post, LikeCount) VALUES (14, 1/25/2012, 'Yes', 2, 2, 10);

INSERT INTO Comment (CommentId, Date, Content, Poster, Post, LikeCount) VALUES (15, 12/11/2011, 'Really?', 3, 3, 20);

INSERT INTO Comment (CommentId, Date, Content, Poster, Post, LikeCount) VALUES (16, 7/6/2015, 'Chip', 1, 3, 9);

INSERT INTO Comment (CommentId, Date, Content, Poster, Post, LikeCount) VALUES (17, 4/7/2010, 'Ok', 4, 1, 11);

INSERT INTO Comment (CommentId, Date, Content, Poster, Post, LikeCount) VALUES (18, 9/15/2006, 'No', 4, 5, 43);

INSERT INTO Comment (CommentId, Date, Content, Poster, Post, LikeCount) VALUES (20, 7/7/2007, 'Seven', 1, 5, 41);

INSERT INTO Comment (CommentId, Date, Content, Poster, Post, LikeCount) VALUES (21, 12/9/2016, 'Nice', 2, 4, 30);

-- Post Inserts

INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId, GroupId, LikeCount) VALUES (13, 11/14/2015, 'Hello', 4, 3, 1, 2, 0);

INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId, GroupId, LikeCount) VALUES (14, 10/4/2012, 'World', 3, 4, 2, 3, 2);

INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId, GroupId, LikeCount) VALUES (15, 11/4/2016, 'Hi', 0, 5, 6, 4, 8);

INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId, GroupId, LikeCount) VALUES (16, 12/4/2016, 'Wow', 0, 4, 2, 5, 0);

INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId, GroupId, LikeCount) VALUES (17, 9/4/2016, 'Tony', 0, 7, 7,2, 0);

INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId, GroupId, LikeCount) VALUES (18, 1/24/2016, 'Idk', 0, 5, 6, 3, 2);

INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId, GroupId, LikeCount) VALUES (19, 4/24/2016, 'Really?', 0, 2, 5, 4, 9);

INSERT INTO Post (PostId, Date, Content, CommentCount, Poster, PageId, GroupId, LikeCount) VALUES (20, 10/22/2016, 'Sure', 0, 8, 8, 5, 7);