**M.JAGADEESH**

**CB.SC.I5DAS21030**

**DATABASE DESIGN FACEBOOK**

**QUERY DOCUMENT**

**USER TABLE -1**

CREATE TABLE Users (

user\_id INT PRIMARY KEY,

full\_name VARCHAR(100),

email VARCHAR(255) UNIQUE,

birth\_date VARCHAR(20),

gender VARCHAR(20),

city VARCHAR(100),

country VARCHAR(100)

);

DESC users;

INSERT INTO Users VALUES(1, 'John Doe', 'john.doe@example.com', '1990-05-15', 'Male', 'New York', 'USA');

INSERT INTO Users VALUES(2, 'Jane Smith', 'jane.smith@example.com', '1985-09-20', 'Female', 'Los Angeles', 'USA');

INSERT INTO Users VALUES(3, 'Michael Johnson', 'michael.johnson@example.com', '1992-03-10', 'Male', 'Chicago', 'USA');

INSERT INTO Users VALUES(4, 'Emily Brown', 'emily.brown@example.com', '1988-11-28', 'Female', 'London', 'UK');

INSERT INTO Users VALUES(5, 'Robert Lee', 'robert.lee@example.com', '1995-07-02', 'Male', 'Toronto', 'Canada');

INSERT INTO Users VALUES(6, 'Sophia Kim', 'sophia.kim@example.com', '1991-12-18', 'Female', 'Seoul', 'South Korea');

INSERT INTO Users VALUES(7, 'William Wang', 'william.wang@example.com', '1993-06-05', 'Male', 'Beijing', 'China');

INSERT INTO Users VALUES(8, 'Olivia Hernandez', 'olivia.hernandez@example.com', '1989-04-12', 'Female', 'Mexico City', 'Mexico');

INSERT INTO Users VALUES(9, 'David Nguyen', 'david.nguyen@example.com', '1994-10-07', 'Male', 'Hanoi', 'Vietnam');

INSERT INTO Users VALUES(10, 'Ava Martinez', 'ava.martinez@example.com', '1997-01-25', 'Female', 'Madrid', 'Spain');

select \* from users;

**MASTER TABLE -1**

CREATE TABLE Login(

login\_id int not null primary key,

user\_id int not null unique,

login\_password varchar(255) not null,

login\_date varchar(255),

login\_location varchar(255),

login\_info varchar(255),

login\_from varchar(255)

);

desc Login;

INSERT INTO Login values(1, 11, "neversing" , "22-july-2018" , "vellore" , "success", "mobile");

INSERT INTO Login values(2, 12, "letmein" , "21-jan-2018" , "london" , "unsuccess", "laptop");

INSERT INTO Login values(3, 13, "kidoooo" , "12-seb-2008" , "madrid" , "success", "tablet");

INSERT INTO Login values(4, 14, "neverforget" , "22-jan-2004" , "barcelona" , "unsuccess", "mobile");

INSERT INTO Login values(5, 15, "okkkkkk" , "2-may-2019" , "san fransico" , "success", "mobile");

INSERT INTO Login values(6, 16, "messiisgoat" , "2-july-2018" , "vellore" , "unsuccess", "mobile");

INSERT INTO Login values(7, 17, "barcsaaa" , "13-july-2018" , "texas" , "success", "tablet");

INSERT INTO Login values(8, 18, "uhmmmmm" , "19-march-2015" , "erode" , "unsuccess", "mobile");

INSERT INTO Login values(9, 19, "lethergo" , "20-july-2020" , "chennai" , "unsuccess", "laptop");

INSERT INTO Login values(10, 20, "iamfinished" , "22-jan-2003" , "coimbatore" , "success", "mobile");

select \* from login;

**MASTER TABLE-2**

CREATE TABLE GroupChat (

group\_id INT PRIMARY KEY,

group\_name VARCHAR(100),

group\_description VARCHAR(40),

created\_by INT,

created\_at VARCHAR(40),

group\_type VARCHAR(40),

member\_count INT

);

DESC Groupchat;

INSERT INTO Groupchat VALUES(1, 'Travel Enthusiasts', 'A group for travel lovers.', 2, '2023-07-15 14:00:00', 'Public', 50);

INSERT INTO Groupchat VALUES(2, 'Cooking Masters', 'Share your favorite recipes!', 5, '2023-06-10 12:30:00', 'Private', 25);

INSERT INTO Groupchat VALUES(3, 'Fitness Freaks', 'Achieve your fitness goals together.', 8, '2023-07-22 10:15:00', 'Public', 40);

INSERT INTO Groupchat VALUES(4, 'Photography Club', 'Capture moments through your lens.', 3, '2023-05-05 16:45:00', 'Public', 30);

INSERT INTO Groupchat VALUES(5, 'Bookworms', 'Discuss and recommend books.', 9, '2023-08-01 09:00:00', 'Private', 20);

INSERT INTO Groupchat VALUES(6, 'Art Enthusiasts', 'Explore the world of art and creativity.', 7, '2023-08-12 11:30:00', 'Public', 35);

INSERT INTO Groupchat VALUES(7, 'Tech Geeks', 'Stay updated with the latest technology.', 1, '2023-07-03 14:20:00', 'Public', 60);

INSERT INTO Groupchat VALUES(8, 'Music Lovers', 'Share your favorite tunes and artists.', 4, '2023-06-18 18:10:00', 'Public', 45);

INSERT INTO Groupchat VALUES(9, 'Outdoor Adventurers', 'Embark on thrilling outdoor activities.', 6, '2023-08-28 09:30:00', 'Public', 55);

INSERT INTO Groupchat VALUES(10, 'Pet Owners', 'Connect with fellow pet lovers.', 10, '2023-07-08 22:45:00', 'Private', 15);

SELECT \* FROM GROUPchat;

**MASTER TABLE-3**

CREATE TABLE Albums (

album\_id INT PRIMARY KEY,

user\_id INT,

album\_name VARCHAR(100),

created\_at VARCHAR(30),

last\_updated VARCHAR(30),

privacy VARCHAR(30),

photo\_count INT,

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

);

DESC Albums;

INSERT INTO ALBUMS VALUES(1, 1, 'Vacation Memories', '2023-07-15 14:00:00', '2023-07-30 09:00:00', 'Public', 3);

INSERT INTO ALBUMS VALUES(2, 4, 'Family Gatherings', '2023-06-10 12:30:00', '2023-07-25 11:00:00', 'Friends', 2);

INSERT INTO ALBUMS VALUES(3, 7, 'City Explorations', '2023-07-22 10:15:00', '2023-08-01 14:20:00', 'Public', 2);

INSERT INTO ALBUMS VALUES(4, 2, 'Fitness Journey', '2023-05-05 16:45:00', '2023-07-20 13:10:00', 'Public', 2);

INSERT INTO ALBUMS VALUES(5, 8, 'Book Recommendations', '2023-08-01 09:00:00', '2023-08-02 16:30:00', 'Friends', 1);

INSERT INTO ALBUMS VALUES(6, 5, 'Nature Retreat', '2023-06-18 11:30:00', '2023-07-10 10:00:00', 'Public', 3);

INSERT INTO ALBUMS VALUES(7, 9, 'Food Adventures', '2023-07-03 14:20:00', '2023-08-05 17:45:00', 'Public', 4);

INSERT INTO ALBUMS VALUES(8, 6, 'Artistic Creations', '2023-08-12 11:30:00', '2023-08-15 09:30:00', 'Public', 3);

INSERT INTO ALBUMS VALUES(9, 3, 'Road Trips', '2023-08-28 09:30:00', '2023-09-02 12:15:00', 'Public', 4);

INSERT INTO ALBUMS VALUES(10, 10, 'Furry Friends', '2023-07-08 22:45:00', '2023-07-12 15:20:00', 'Friends', 2);

SELECT \* FROM ALBUMS;

**MASTER TABLE-4**

CREATE TABLE Photos (

photo\_id INT PRIMARY KEY,

user\_id INT,

photo\_content VARCHAR(20),

upload\_time VARCHAR(20),

location VARCHAR(100),

privacy VARCHAR(20),

album\_id INT,

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

FOREIGN KEY (album\_id) REFERENCES Albums(album\_id)

);

DESC Photos;

INSERT INTO PHOTOS VALUES(1, 1, 'image1.jpg', '2023-07-15 15:30:00', 'New York', 'Public', 1);

INSERT INTO PHOTOS VALUES(2, 4, 'image2.jpg', '2023-06-10 13:45:00', 'London', 'Friends', 2);

INSERT INTO PHOTOS VALUES(3, 7, 'image3.jpg', '2023-07-22 11:20:00', 'Beijing', 'Public', 4);

INSERT INTO PHOTOS VALUES(4, 2, 'image4.jpg', '2023-05-05 18:00:00', 'Los Angeles', 'Public', 3);

INSERT INTO PHOTOS VALUES(5, 8, 'image5.jpg', '2023-08-01 10:30:00', 'Mexico City', 'Friends', 5);

INSERT INTO PHOTOS VALUES(6, 3, 'image6.jpg', '2023-07-15 16:40:00', 'Chicago', 'Public', 6);

INSERT INTO PHOTOS VALUES(7, 6, 'image7.jpg', '2023-06-10 14:50:00', 'Seoul', 'Friends', 7);

INSERT INTO PHOTOS VALUES(8, 9, 'image8.jpg', '2023-07-22 12:15:00', 'Hanoi', 'Public', 8);

INSERT INTO PHOTOS VALUES(9, 5, 'image9.jpg', '2023-05-05 19:30:00', 'Toronto', 'Public', 9);

INSERT INTO PHOTOS VALUES(10, 10, 'image10.jpg', '2023-08-01 11:45:00', 'Madrid', 'Friends', 10);

SELECT \* FROM PHOTOS;

**MASTER TABLE-5**

CREATE TABLE Reactions (

reaction\_id INT PRIMARY KEY,

post\_id INT,

user\_id INT,

reaction\_type VARCHAR(20),

reacted\_at VARCHAR(20),

additional\_info VARCHAR(255),

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

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

);

DESC reactions;

INSERT INTO REACTIONS VALUES(1, 3, 1, 'Like', '2023-07-15 16:00:00', NULL);

INSERT INTO REACTIONS VALUES(2, 7, 4, 'Love', '2023-06-10 18:30:00', 'Great photo!');

INSERT INTO REACTIONS VALUES(3, 1, 10, 'Haha', '2023-07-22 10:45:00', NULL);

INSERT INTO REACTIONS VALUES(4, 8, 3, 'Wow', '2023-05-05 20:00:00', NULL);

INSERT INTO REACTIONS VALUES(5, 5, 6, 'Sad', '2023-08-01 12:30:00', NULL);

INSERT INTO REACTIONS VALUES(6, 2, 9, 'Angry', '2023-07-15 17:20:00', 'Not impressed');

INSERT INTO REACTIONS VALUES(7, 4, 2, 'Like', '2023-06-10 21:15:00', NULL);

INSERT INTO REACTIONS VALUES(8, 9, 5, 'Love', '2023-07-22 13:00:00', 'Beautiful!');

INSERT INTO REACTIONS VALUES(9, 6, 8, 'Haha', '2023-05-05 22:10:00', NULL);

INSERT INTO REACTIONS VALUES(10, 10, 7, 'Wow', '2023-08-01 14:45:00', NULL);

SELECT \* FROM REACTIONS

**TRANSACTION TABLE-1**

CREATE TABLE Posts (

post\_id INT PRIMARY KEY,

user\_id INT,

post\_content VARCHAR(50),

created\_at VARCHAR(50),

location VARCHAR(100),

privacy VARCHAR(50),

post\_type VARCHAR(50),

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

);

DESC Posts;

INSERT INTO POSTS VALUES(1, 1, 'Just had an amazing vacation!', '2023-07-15 14:30:00', 'New York', 'Public', 'Text');

INSERT INTO POSTS VALUES(2, 4, 'Trying out a new recipe today.', '2023-06-10 11:45:00', 'London', 'Friends', 'Text');

INSERT INTO POSTS VALUES(3, 7, 'Exploring the historic sites in Beijing.', '2023-07-22 09:20:00', 'Beijing', 'Public', 'Image');

INSERT INTO POSTS VALUES(4, 2, 'Beautiful sunset in Los Angeles.', '2023-05-05 15:15:00', 'Los Angeles', 'Public', 'Image');

INSERT INTO POSTS VALUES(5, 8, 'Enjoying the local cuisine in Mexico City.', '2023-08-01 08:30:00', 'Mexico City', 'Friends', 'Text');

INSERT INTO POSTS VALUES(6, 3, 'Great day at the Chicago museum!', '2023-07-15 13:40:00', 'Chicago', 'Public', 'Image');

INSERT INTO POSTS VALUES(7, 6, 'Seoul fashion week was a blast!', '2023-06-10 10:10:00', 'Seoul', 'Friends', 'Text');

INSERT INTO POSTS VALUES(8, 9, 'Hiking in the beautiful landscapes of Hanoi.', '2023-07-22 09:55:00', 'Hanoi', 'Public', 'Image');

INSERT INTO POSTS VALUES(9, 5, 'Exploring the streets of Toronto.', '2023-05-05 14:25:00', 'Toronto', 'Public', 'Image');

INSERT INTO POSTS VALUES(10, 10, 'Adventures in Madrid!', '2023-08-01 07:15:00', 'Madrid', 'Friends', 'Text');

SELECT \* FROM POSTS;

**TRANSACTIONS TABLE -2**

CREATE TABLE Comments (

comment\_id INT PRIMARY KEY,

post\_id INT,

user\_id INT,

comment\_content VARCHAR(50),

created\_at VARCHAR(50),

reply\_to INT,

likes\_count INT,

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

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

);

DESC Comments;

INSERT INTO Comments values(1, 3, 1, 'Amazing view!', '2023-07-15 14:40:00', NULL, 15);

INSERT INTO Comments values(2, 7, 4, 'You look fantastic!', '2023-06-10 12:00:00', NULL, 80);

INSERT INTO Comments values(3, 1, 10, 'Looks like a fun trip!', '2023-07-22 09:40:00', NULL, 333);

INSERT INTO Comments values(4, 8, 3, 'I want to visit there!', '2023-05-05 15:50:00', NULL, 256);

INSERT INTO Comments values(5, 5, 6, 'Wishing I was there too!', '2023-08-01 10:00:00', NULL, 478);

INSERT INTO Comments values(6, 2, 9, 'Recipe please!', '2023-07-15 14:55:00', NULL, 689);

INSERT INTO Comments values(7, 4, 2, 'Stunning!', '2023-06-10 13:20:00', NULL, 756);

INSERT INTO Comments values(8, 9, 5, 'I love that city!', '2023-07-22 11:10:00', NULL,5671);

INSERT INTO Comments values(9, 6, 8, 'What a great shot!', '2023-05-05 16:30:00', NULL, 900);

INSERT INTO Comments values(10, 10, 7, 'Your adventures are always exciting!', '2023-08-01 12:10:00', NULL, 90);

select \* from comments

**TRANSACTION TABLE-3**

CREATE TABLE Likes (

like\_id INT PRIMARY KEY,

post\_id INT,

comment\_id INT,

user\_id INT,

liked\_at VARCHAR(30),

like\_type VARCHAR(50),

liked\_item\_id INT,

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

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

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

);

DESC likes;

INSERT INTO LIKES VALUES(1, 3, 1, 1, '2023-07-15 15:00:00', 'Post', 11);

INSERT INTO LIKES VALUES(2, 7, 2, 4, '2023-06-10 14:20:00', 'Post', 12);

INSERT INTO LIKES VALUES(3, 1, 3, 10, '2023-07-22 10:00:00', 'Post', 13);

INSERT INTO LIKES VALUES(4, 9, 8, 3, '2023-05-05 16:00:00', 'Comment', 14);

INSERT INTO LIKES VALUES(5, 5, 4, 6, '2023-08-01 13:30:00', 'Post', 15);

INSERT INTO LIKES VALUES(6, 2, 5, 9, '2023-07-15 16:10:00', 'Post', 16);

INSERT INTO LIKES VALUES(7, 4, 6, 2, '2023-06-10 15:40:00', 'Post', 17);

INSERT INTO LIKES VALUES(8, 8, 9, 5, '2023-07-22 12:30:00', 'Comment', 18);

INSERT INTO LIKES VALUES(9, 6, 7, 8, '2023-05-05 17:45:00', 'Post', 19);

INSERT INTO LIKES VALUES(10, 10, 10, 7, '2023-08-01 14:20:00', 'Post', 20);

SELECT \* FROM LIKES;

**TRANSACTION TABLE-4**

CREATE TABLE Friendships (

friendship\_id INT PRIMARY KEY,

user\_id INT,

post\_id INT,

status VARCHAR(30),

initiated\_at VARCHAR(30),

friend\_type VARCHAR(30),

friend\_since VARCHAR(30),

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

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

);

desc friendships;

INSERT INTO FRIENDSHIPS VALUES(1, 1, 2, 'Accepted', '2023-07-15 16:30:00', 'Close', '2023-07-16');

INSERT INTO FRIENDSHIPS VALUES(2, 4, 7, 'Pending', '2023-06-10 17:00:00', 'Close', NULL);

INSERT INTO FRIENDSHIPS VALUES(3, 3, 10, 'Accepted', '2023-07-22 13:45:00', 'Acquaintance', '2023-07-23');

INSERT INTO FRIENDSHIPS VALUES(4, 2, 5, 'Accepted', '2023-05-05 18:30:00', 'Acquaintance', '2023-05-06');

INSERT INTO FRIENDSHIPS VALUES(5, 8, 9, 'Pending', '2023-08-01 15:15:00', 'Close', NULL);

INSERT INTO FRIENDSHIPS VALUES(6, 3, 6, 'Accepted', '2023-07-15 17:45:00', 'Close', '2023-07-18');

INSERT INTO FRIENDSHIPS VALUES(7, 6, 1, 'Accepted', '2023-06-10 19:00:00', 'Acquaintance', '2023-06-11');

INSERT INTO FRIENDSHIPS VALUES(8, 9, 4, 'Pending', '2023-07-22 14:30:00', 'Acquaintance', NULL);

INSERT INTO FRIENDSHIPS VALUES(9, 5, 8, 'Accepted', '2023-05-05 20:45:00', 'Close', '2023-05-07');

INSERT INTO FRIENDSHIPS VALUES(10, 10, 3, 'Accepted', '2023-08-01 16:15:00', 'Close', '2023-08-02');

SELECT \* FROM FRIENDSHIPS;

**TRANSACTION TABLE-5**

CREATE TABLE Messages (

message\_id INT PRIMARY KEY,

reaction\_id INT,

group\_id INT,

message\_contenT VARCHAR(50),

sent\_at VARCHAR(50),

is\_read VARCHAR(50),

is\_archived VARCHAR(50),

FOREIGN KEY (reaction\_id) REFERENCES REACTIONS(reaction\_id),

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

);

DESC Messages;

INSERT INTO MESSAGES VALUES(1, 1, 2, 'Hey there!', '2023-07-15 17:30:00', 'true', 'false');

INSERT INTO MESSAGES VALUES(2, 4, 7, 'How was your day?', '2023-06-10 18:45:00', 'false', 'false');

INSERT INTO MESSAGES VALUES(3, 7, 1, 'I saw your latest post.', '2023-07-22 15:20:00', 'true', 'false');

INSERT INTO MESSAGES VALUES(4, 2, 5, 'Lets catch up soon!', '2023-05-05 19:15:00', 'false', 'false');

INSERT INTO MESSAGES VALUES(5, 8, 9, 'Remember the trip we planned?', '2023-08-01 17:30:00', 'false', 'false');

INSERT INTO MESSAGES VALUES(6, 3, 6, 'Have you seen the new movie?', '2023-07-15 19:00:00', 'true', 'false');

INSERT INTO MESSAGES VALUES(7, 6, 1, 'Im excited for the event!', '2023-06-10 20:15:00', 'false', 'false');

INSERT INTO MESSAGES VALUES(8, 9, 4, 'Hows work going?', '2023-07-22 16:45:00', 'false', 'false');

INSERT INTO MESSAGES VALUES(9, 5, 8, 'Lets plan a weekend getaway.', '2023-05-05 21:30:00', 'true', 'false');

INSERT INTO MESSAGES VALUES(10, 10, 3, 'Congratulations on your new job!', '2023-08-01 18:15:00', 'false', 'false');

SELECT \* FROM MESSAGES;

**TRANSACTION TABLE-6**

CREATE TABLE Notifications (

notification\_id INT PRIMARY KEY,

user\_id INT,

notification\_content VARCHAR(50),

created\_at VARCHAR(50),

is\_seen VARCHAR(50),

is\_important VARCHAR(50),

mark\_as VARCHAR(50),

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

);

DESC NOTIFICATIONS;

INSERT INTO NOTIFICATIONS VALUES(1, 1, 'You have a new friend request.', '2023-07-15 18:30:00', 'false', 'true','read');

INSERT INTO NOTIFICATIONS VALUES(2, 4, 'Someone commented on your post.', '2023-06-10 19:45:00', 'false', 'false','not\_read');

INSERT INTO NOTIFICATIONS VALUES(3, 7, 'Your group membership request was accepted.', '2023-07-22 17:20:00', 'false', 'true','read');

INSERT INTO NOTIFICATIONS VALUES(4, 2, 'You received a new message.', '2023-05-05 20:15:00', 'false', 'true','read');

INSERT INTO NOTIFICATIONS VALUES(5, 8, 'Your post has been liked.', '2023-08-01 19:30:00', 'false', 'false','not\_read');

INSERT INTO NOTIFICATIONS VALUES(6, 3, 'New event announcement: Art Exhibition.', '2023-07-15 20:00:00', 'false', 'true','read');

INSERT INTO NOTIFICATIONS VALUES(7, 6, 'Upcoming book club meeting.', '2023-06-10 21:15:00', 'false', 'false','read');

INSERT INTO NOTIFICATIONS VALUES(8, 9, 'Your photo has been featured.', '2023-07-22 18:45:00', 'false', 'true','not\_read');

INSERT INTO NOTIFICATIONS VALUES(9, 5, 'You have a new follower.', '2023-05-05 22:30:00', 'false', 'true','read');

INSERT INTO NOTIFICATIONS VALUES(10, 10, 'Event reminder: Music Concert this weekend.', '2023-08-01 20:15:00', 'false', 'false','read');

select \* from notifications;