**5330-Database Systems**

**Name:** Avani Chandorkar (1001668554)

Rachana Naganagouda Patil (1001644227)

**Social Network**

**Create Operation**

**1) Profile Table:**

CREATE TABLE PROFILE (

Profile\_ID INT PRIMARY KEY NOT NULL,

firstname VARCHAR(30) NOT NULL,

lastname VARCHAR(30),

Mobile CHAR(10),

DOB DATE,

Email VARCHAR(50),

Username VARCHAR(10) NOT NULL,

Password VARCHAR(10) NOT NULL);

**2) Page Table:**

CREATE TABLE PAGE (

Page\_ID INT PRIMARY KEY,

Pagename VARCHAR(20) NOT NULL,

Description Text,

Page\_Category VARCHAR(20) NOT NULL,

Followers INT);

**3) Post Table:**

CREATE TABLE POST (

Post\_ID INT PRIMARY KEY,

Post\_Date DATE,

Comments INT,

Profile\_ID INT,

Page\_ID INT,

FOREIGN KEY(Profile\_ID) REFERENCES PROFILE(Profile\_ID),

FOREIGN KEY(Page\_ID) REFERENCES PAGE(Page\_ID));

**4) Group Table:**

CREATE TABLE GROUP (

Group\_ID INT PRIMARY KEY,

Groupname VARCHAR(20),

Group\_AdminID INT,

Members INT,

FOREIGN KEY(Group\_AdminID) REFERENCES PROFILE(Profile\_ID));

**5) Message Table:**

CREATE TABLE MESSAGE

(Message\_ID INT PRIMARY KEY,

Sender\_ID INT NOT NULL,

Receiver\_ID INT NOT NULL,

Message\_Date DATE,

FOREIGN KEY(Sender\_ID) REFERENCES PROFILE(Profile\_ID),

FOREIGN KEY(Receiver\_ID) REFERENCES PROFILE(Profile\_ID));

**6) Text Table:**

CREATE TABLE TEXT

(Post\_ID INT NOT NULL,

Text VARCHAR(100) NOT NULL,

PRIMARY KEY(Post\_ID,Text),

FOREIGN KEY Post\_ID REFERENCES POST(Post\_ID));

**7) Photos Table:**

CREATE TABLE PHOTOS

(Post\_ID INT NOT NULL,

Photo\_Name VARCHAR(20) NOT NULL,

PRIMARY KEY(Post\_ID,Photo\_Name),

FOREIGN KEY Post\_ID REFERENCES POST (Post\_ID));

**8) Audio Table:**

CREATE TABLE AUDIO

(Post\_ID INT NOT NULL,

Audio\_Name VARCHAR(20) NOT NULL,

PRIMARY KEY(Post\_ID,Audio\_Name),

FOREIGN KEY Post\_ID REFERENCES POST (Post\_ID));

**9) Video Table:**

CREATE TABLE VIDEO

(Post\_ID INT NOT NULL,

Video\_Name VARCHAR(20) NOT NULL,

PRIMARY KEY(Post\_ID,Video\_name),

FOREIGN KEY Post\_ID REFERENCES POST (Post\_ID));

**Insert Operation**

**1) Profile Table:**

INSERT INTO profile VALUES(1, 'Amy ', ' Woolf', 6443789543, ' 1997-05-22 ', 'amy@gmail.com', 'amyw', 'amy123');

INSERT INTO profile VALUES(2, 'John ', 'Morris', 6783456233, '1993-07-12', 'johnm@gmail.com', 'john12', 'john123');

INSERT INTO profile VALUES(3, 'Mark ', ' Johnson', 6783656233, '1995-05-2', 'mark@gmail.com', 'markj', 'mark123');

INSERT INTO profile VALUES(4, 'Maria ', ' Bing', 7783656233, '1973-11-25', 'maria@gmail.com', 'maria25', 'maria123');

INSERT INTO profile VALUES(5, 'Anderson', ' Green', 6443799543, ' 1999-03-21 ', 'andy@gmail.com', 'andy', 'andy123');

INSERT INTO profile VALUES(6, 'Murphy ', 'Taylor', 6783456833, '1998-02-12', 'murphy@gmail.com', 'murphy12', 'murphy123');

INSERT INTO profile VALUES(7, 'Scott ', ' Jenkins', 8783656233, '1960-11-7', 'scott@gmail.com', 'scott', 'scott123');

INSERT INTO profile VALUES(8, 'Perry ', ' Simons', 9083656233, '1987-12-15', 'perry@gmail.com', 'perry10', 'perry123');

INSERT INTO profile VALUES(9, 'Adams ', ' Baker', 6443755543, ' 1994-05-22 ', 'adams@gmail.com', 'adams', 'adams123');

INSERT INTO profile VALUES(10, 'Ross ', 'Hill', 6783999233, '1988-07-12', 'ross@gmail.com', 'ross12', 'ross123');

INSERT INTO profile VALUES(11, 'Allen ', ' Bell', 6734556233, '1973-05-2', 'allen@gmail.com', 'allen', 'allen123');

INSERT INTO profile VALUES(12, 'Stewart ', ' Washington', 7788826233, '1970-11-25', 'stewart@gmail.com', 'stewart25', 'stewart123');

INSERT INTO profile VALUES(13, 'Cox', ' Gray', 6490799543, ' 1998-03-21 ', 'cox@gmail.com', 'cox', 'cox123');

INSERT INTO profile VALUES(14, 'Phillips', 'Turner', 6783707833, '1991-02-12', 'phillips@gmail.com', 'phillips12', 'phillips123');

INSERT INTO profile VALUES(15, 'Watson', ' Parker', 8783690433, '1967-11-7', 'watson@gmail.com', 'watson', 'watson123');

INSERT INTO profile VALUES(16, 'Lewis ', ' Evans', 9083691233, '1987-12-15', 'lewis@gmail.com', 'lewis10', 'lewis123');

INSERT INTO profile VALUES(17, 'Nelson ', ' Simons', 9083656003, '1987-12-18', 'nelson3@gmail.com', 'nel4', 'nelson512');

INSERT INTO profile VALUES(18, 'Harry', ' White', 6443755113, ' 1994-05-12 ', 'harry12@gmail.com', 'harry', 'harry123');

INSERT INTO profile VALUES(19, 'Ross ', 'Diaz', 6783999233, '1988-07-02', 'ross7@gmail.com', 'diaz12', 'diaz123');

INSERT INTO profile VALUES(20, 'James ', ' Collins', 6711556233, '1973-05-30', 'james@gmail.com', 'james', 'james123');

INSERT INTO profile VALUES(21, 'Watson', ' Lee', 7788864233, '1970-11-28', 'watson@gmail.com', 'watson25', 'watson123');

INSERT INTO profile VALUES(22, 'Miller', ' Reed', 6490889543, ' 1998-03-04 ', 'reed@gmail.com', 'miller', 'miller123');

INSERT INTO profile VALUES(23, 'Phillips', 'Turing', 6786637833, '1991-02-11', 'turing@gmail.com', 'turing12', 'turing123');

INSERT INTO profile VALUES(24, 'Jack', ' Moore', 8783828433, '1967-11-15', 'jack@gmail.com', 'jack', 'jack123');

INSERT INTO profile VALUES(25, 'Young ', ' Evans', 9083010233, '1987-12-13', 'young@gmail.com', 'young10', 'young123');

**2) Page Table:**

INSERT INTO page VALUES(1, ' Beautiful Destinations ', ' Information and updates about beautiful places to see all around the world.' , ' Travel', 500000);

INSERT INTO page VALUES(2, ' Jokes ', ' Funny, sarcastic jokes ' , ' Entertainment', 250000);

INSERT INTO page VALUES(3, ' Cricbuzz ', ' News on cricket matches ' , 'Sports', 700000);

INSERT INTO page VALUES(4, ' Sarcasm society ', ' sarcastic jokes ' , ' Entertainment', 35000);

INSERT INTO page VALUES(5, ' Dresses and accessories ', ' Designs of various designer dresses ' , ' Lifestyle', 2000);

INSERT INTO page VALUES(6, ' General Knowledge ', ' Information of current affairs in the world ' , ' Education', 850000);

INSERT INTO page VALUES(7, ' Desserts ', ' Pictures of various types of desserts ' , ' Food', 8000);

INSERT INTO page VALUES(8, ' Trekking ', ' Travel destinations and trekking places all over the world ' , ' Travel',950000);

INSERT INTO page VALUES(9, ' Artificial Intelligence ', ' Theories behind building artificially intelligent systems and machines ' , ' Education', 600000);

INSERT INTO page VALUES(10, ' Gadget Guru ', ' Information on different types of gadgets ' , 'Technology', 40000);

**3) Post Table:**

INSERT INTO post VALUES(1, ' 2018-11-01', 1500, NULL, 4);

INSERT INTO post VALUES(2, ' 2018-11-12', 20, 1, NULL);

INSERT INTO post VALUES(3, ' 2016-10-01', 1060, NULL, 8);

INSERT INTO post VALUES(4, ' 2015-06-21',90, NULL, 2);

INSERT INTO post VALUES(5, ' 2017-12-02', 45,7, NULL);

INSERT INTO post VALUES(6, ' 2018-07-11', 77, 4, NULL);

INSERT INTO post VALUES(7, ' 2011-11-12',450, 12, NULL);

INSERT INTO post VALUES(8, ' 2014-10-01',280, NULL, 5);

INSERT INTO post VALUES(9, ' 2016-11-12', 50,17, NULL);

INSERT INTO post VALUES(10, ' 2013-10-01',600, NULL, 7);

**EER Diagram for Social Network:**

C:\Users\Avani Chandorkar\Desktop\SocialNetwork.png

**Relational schema for Social Network Database:**

C:\Users\Avani Chandorkar\Desktop\DBProject\Relational_Schema.png

**Screenshot of Social Network Database created in phpmyadmin:**

