

## 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);
```

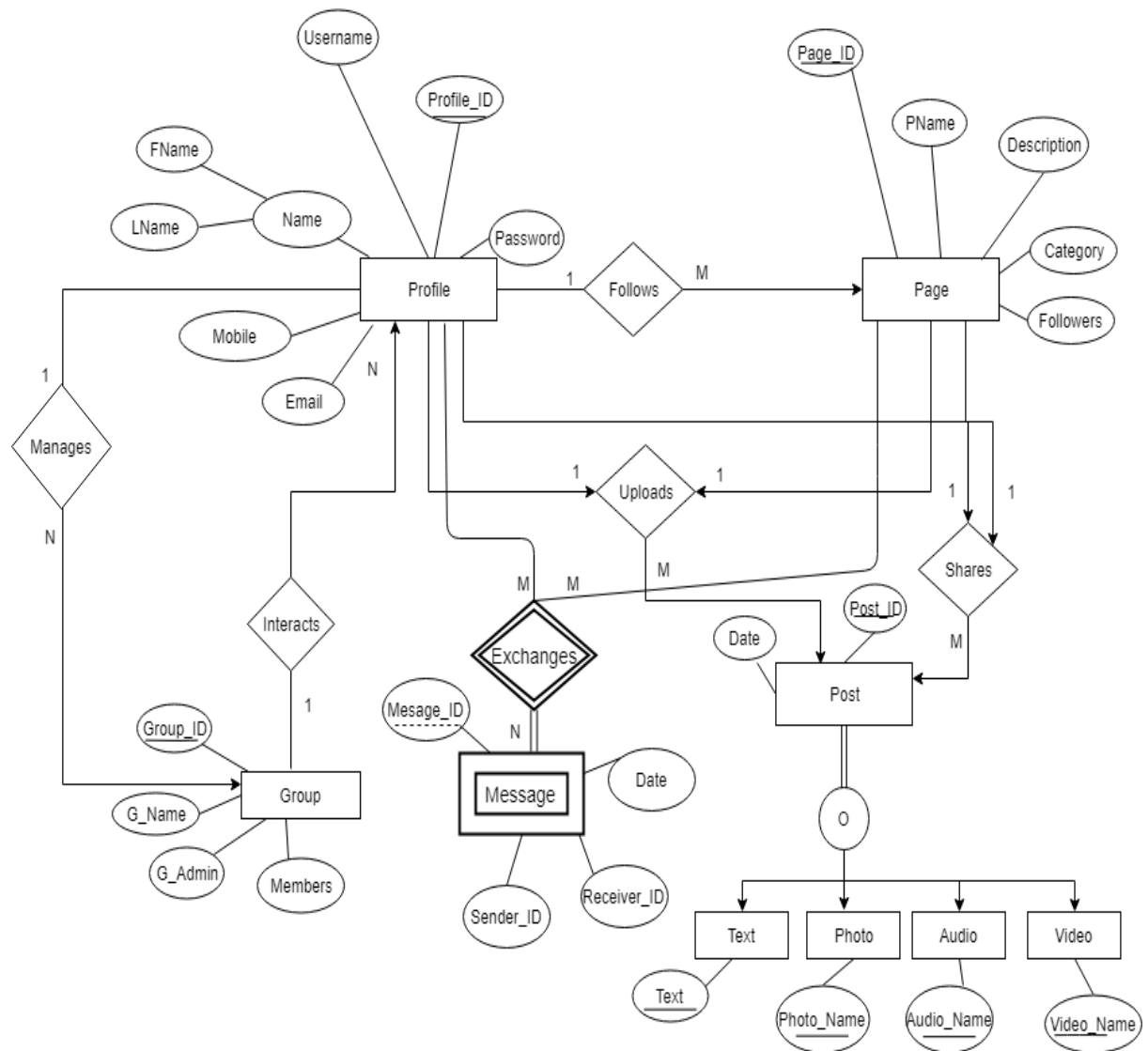
```
INSERT INTO post VALUES(7, ' 2011-11-12',450, 12, NULL);
```

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

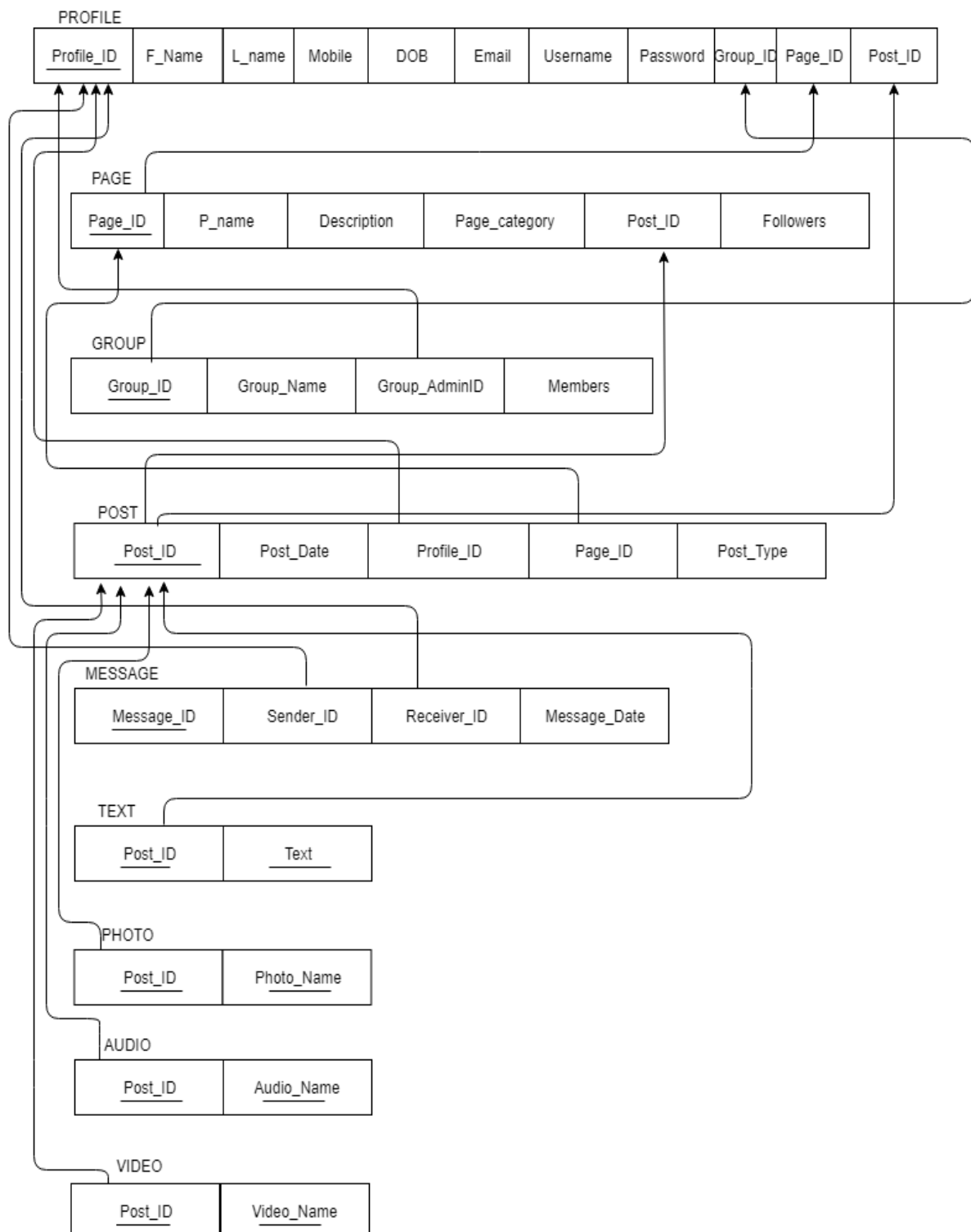
```
INSERT INTO post VALUES(9, ' 2016-11-12', 50,17, NULL);
```

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

## EER Diagram for Social Network:



## Relational schema for Social Network Database:



## Screenshot of Social Network Database created in phpmyadmin:

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phpMyAdmin

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Server: localhost:3306 » Database: project

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Filters

Containing the word: Rectangular Ship

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> audio		2	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> group		3	InnoDB	latin1_swedish_ci	32 KiB	-
<input type="checkbox"/> message		2	InnoDB	latin1_swedish_ci	48 KiB	-
<input type="checkbox"/> page		10	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> photos		2	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> post		11	InnoDB	latin1_swedish_ci	48 KiB	-
<input type="checkbox"/> profile		25	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> text		3	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> video		2	InnoDB	latin1_swedish_ci	16 KiB	-
9 tables	Sum	60	InnoDB	latin1_swedish_ci	224 KiB	0 B

Console