# TWITTER DATA MANAGEMENT OF USERS IN A

ROLL NO:1602-18-737-066 Name: Thodupunuri Badrinath REGION

# ABSTRACT:

In social media, information is present in large amount. Extracting information from social media gives us several usage in various fields. In the field of biomedical and healthcare, extracting information from social media is providing number of benefits such as knowledge about the latest technology, updates of current situation in medical field etc.

Twitter is one of the social media which allows the user post tweets of limited number of characters and share the tweet to their followers. Twitter allows application developer to access the tweets for their purpose. Based on the analysis of comments and reply's people can jump into a conclusion and find a solution to a problem based on user's feedback.

# REQUIREMENTS ANALYSIS:

LIST OF TABLES:

>USERS

>POSTS

>TWEET

>HAS

>FOLLOWING

>HAS\_A

>RESPONSE

List of attributes with their domain types:

### **USERS:**

USER\_NAME : VARCHAR2(10)

USER\_ID :VARCHAR2(10)

MOB\_NO : NUMBER(10)

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

VERIFIED\_FLAG : CHAR(1)

EMAIL\_ID : VARCHAR2(25)

PASSWORD : VARCHAR2(5)

### TWEET:

MESSAGE : VARCHAR2(60)

POLARITY :CHAR(1)

LIKES : NUMBER(4)

TWEET\_ID :VARCHAR2(10)

CATEGORY: VARCHAR2(10)

# **USERS\_TWEET**:

USER\_ID :VARCHAR2(10)

TWEET\_ID :VARCHAR2(10)

P\_DATE : DATE

### **FOLLOWING:**

F\_USER\_ID : VARCHAR2(10)

# USERS\_FOLLOWING:

USER\_ID : VARCHAR2(10)

F\_USER\_ID :VARCHAR2(10)

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

SINCE : DATE

### **RESPONSE:**

R\_USER\_ID :VARCHAR2(10)

REPLIED\_DATE :DATE

CATEGORY : VARCHAR2(6)

MESSAGE :VARCHAR2(100)

MESSAGE\_ID :VARCHAR2(10)

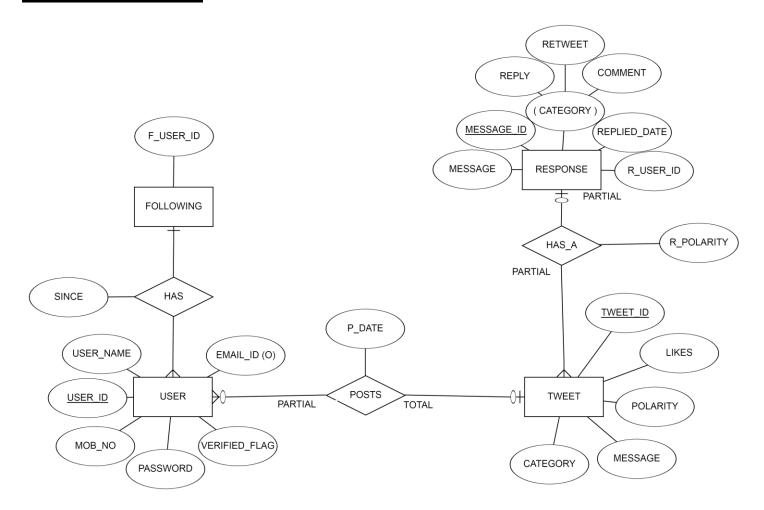
# TWEET\_RESPONSE:

TWEET\_ID :VARCHAR2(10)

MESSAGE\_ID :VARCHAR2(10)

R\_POLARITY :CHAR(1)

# ER DIAGRAM:



# **Mapping Cardinalities and Participation Constraints:**

- >One user can post many posts, so one to many cardinality suit posts.
- > One user can have many followers, so one to many cardinality suit has.
- >A tweet can have many responses, so one to many cardinality

### suit has a.

# DDL AND DML COMMANDS:

SQL> create table Users( 2 user\_name varchar2(10), 3 user\_id number(5) primary key, 4 mob no number(10,0), 5 verified flag char(1) check (verified flag in ('Y','N')), 6 email\_id varchar2(10), 7 password varchar2(5)); Table created. SQL> alter table Users modify(user id varchar2(10)); Table altered. SQL> desc users; Name Null? Type VARCHAR2(10) **USER NAME** VARCHAR2(10) **USER ID NOT NULL** MOB NO NUMBER(10) VERIFIED FLAG CHAR(1)

DBMS ASSIGNMENT I
Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

EMAIL ID VARCHAR2(10)

PASSWORD VARCHAR2(5)

SQL> alter table users modify(email\_id varchar2(25));

Table altered.

SQL> desc users

Name Null? Type

------

USER\_NAME VARCHAR2(10)

USER\_ID NOT NULL VARCHAR2(10)

MOB\_NO NUMBER(10)

VERIFIED\_FLAG CHAR(1)

EMAIL ID VARCHAR2(25)

PASSWORD VARCHAR2(5)

SQL> insert into users

values('&user\_name','&user\_id',&mob\_no,'&verified\_flag','&email\_id','&password ');

Enter value for user name: Badrinath

Enter value for user\_id: Badri2428

Enter value for mob\_no: 9381756470

Enter value for verified\_flag: Y

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for email id: badrinath@gmail.com

Enter value for password: Badri2428

old 1: insert into users

values('&user\_name','&user\_id',&mob\_no,'&verified\_flag','&email\_id','&password ')

new 1: insert into users

values('Badrinath', 'Badri2428', 9381756470, 'Y', 'badrinath@gmail.com', 'Badri2428')

1 row created.

SQL>/

Enter value for user\_name: Abhiraj

Enter value for user\_id: Abhi5007

Enter value for mob\_no: 9949939007

Enter value for verified flag: Y

Enter value for email\_id: dusariabhiraj@gmail.com

Enter value for password: abcd1234@

old 1: insert into users

values('&user\_name','&user\_id',&mob\_no,'&verified\_flag','&email\_id','&password ')

new 1: insert into users

values('Abhiraj','Abhi5007',9949939007,'Y','dusariabhiraj@gmail.com','abcd1234@')

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

1 row created.

SQL> alter table users modify(user name varchar2(10) not null);

Table altered.

SQL> alter table users modify(mob no number(10) not null);

Table altered.

SQL> desc users;

Name	Null?	Type	
USER_NAME	NOT NULL	VARCHAR2(10)	
USER_ID	NOT NULL	VARCHAR2(10)	
MOB_NO	NOT NULL	NUMBER(10)	
VERIFIED_FLAG		CHAR(1)	
EMAIL_ID		VARCHAR2(25)	
PASSWORD		VARCHAR2(10)	

SQL> insert into users

values('&user\_name','&user\_id','&mob\_no','&verified\_flag','&email\_id','&passwor d');

Enter value for user name: Yash

Enter value for user\_id: Yash6960

Enter value for mob no: 8686819973

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for verified flag: N

Enter value for email\_id: yasho6960@gmail.com

Enter value for password: 6960118

old 1: insert into users

values('&user\_name','&user\_id','&mob\_no','&verified\_flag','&email\_id','&passwor d')

new 1: insert into users

values('Yash','Yash6960','8686819973','N','yasho6960@gmail.com','6960118')

1 row created.

SQL>/

Enter value for user name: pranav

Enter value for user\_id: Prana0680

Enter value for mob\_no: 9515789639

Enter value for verified flag: N

Enter value for email\_id: pranav23@gmail.com

Enter value for password: pranav23

old 1: insert into users

values('&user\_name','&user\_id','&mob\_no','&verified\_flag','&email\_id','&passwor d')

new 1: insert into users

values('pranav','Prana0680','9515789639','N','pranav23@gmail.com','pranav23')

1 row created.

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

SQL>/

Enter value for user\_name: Varun

Enter value for user\_id: bel007

Enter value for mob\_no: 8179700761

Enter value for verified flag: Y

Enter value for email\_id:

Enter value for password: varun115

old 1: insert into users

values('&user\_name','&user\_id','&mob\_no','&verified\_flag','&email\_id','&passwor d')

new 1: insert into users values('Varun', 'bel007', '8179700761', 'Y', '', 'varun115')

1 row created.

SQL> select \* from users;

USER_NAME	USER_ID	MOB_NO	V	EMAIL_ID	PASSWORD
			-		
Badrinath	Badri2428	9381756470	Υ	badrinath@gmail.com	Badri2428
Abhiraj	Abhi5007	9949939007	Υd	usariabhiraj@gmail.co	m abcd1234@

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Yash	Yash6960	8686819973 N	yasho6960@gmail.com	6960118
pranav	Prana0680	9515789639 N	pranav23@gmail.com	pranav23
Varun	bel007	8179700761 Y		Varun115

### SQL> create table tweet

- 2 (
- 3 message varchar2(60),
- 4 polarity char(1) check (polarity in ('P','N')),
- 5 likes number(4,0),
- 6 tweet\_id varchar2(10),
- 7 twote\_date date,
- 8 category varchar2(10));

Table created.

SQL> alter table tweet add(primary key(tweet\_id));

Table altered.

SQL> alter table tweet drop(twote\_date);

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		IJ	16	а		$\Gamma \subset$	u	١.

SQL> desc tweet;

Name	Null?	Type
MESSAGE		VARCHAR2(60)
POLARITY		CHAR(1)
LIKES		NUMBER(4)
TWEET_ID	NOT NULL	VARCHAR2(10)
CATEGORY		VARCHAR2(10)

SQL> insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category');

Enter value for message: A new dawn, fresh vigour and renewed hope in Assam!.

Enter value for polarity: P

Enter value for likes: 4024

Enter value for tweet\_id: TY1456278

Enter value for category: Social

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category')

new 1: insert into tweet values('A new dawn,fresh vigour and renewed hope in Assam!.','P',4024,'TY1456278','Social')

1 row created.

SQL>/

Enter value for message: Strolling in sidney.

Enter value for polarity: P

Enter value for likes: 1234

Enter value for tweet\_id: Tx129674

Enter value for category: Fun

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category')

new 1: insert into tweet values('Strolling in sidney.','P',1234,'Tx129674','Fun')

1 row created.

SQL> insert into tweet values('&message','&polarity',&likes,'&tweet id','&category');

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for message: Sending my best wishes to the Indian U19 Cricket team ahead of their world cup final.

Enter value for polarity: P

Enter value for likes: 9876

Enter value for tweet id: QW189528

Enter value for category: Sports

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet id','&category')

new 1: insert into tweet values ('Sending my best wishes to the Indian U19 Cricket team ahead of their world cup

final.','P',9876,'QW189528','Sports')

1 row created.

SQL>/

Enter value for message: Stronger together. Happy Republic Day to all of us.

Enter value for polarity: P

Enter value for likes: 9123

Enter value for tweet id: QP196328

Enter value for category: Social

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category')

new 1: insert into tweet values('Stronger together. Happy Republic Day to all of us.','P',9123,'QP196328','Social')

1 row created.

SQL>/

Enter value for message: In such a massive country like India, only 2200 people have declared their annual income over 1cr.

Enter value for polarity: N

Enter value for likes: 1450

Enter value for tweet\_id: AS190634

Enter value for category: Social

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category')

new 1: insert into tweet values('In such a massive country like India, only 2200 people have declared their annual income

over 1cr.','N',1450,'AS190634','Social')

SQL>/

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for message: The ganga is at the heart of our civilisation. I am glad you spent time in varanasi @Yasho.

Enter value for polarity: P

Enter value for likes: 7803

Enter value for tweet id: ZX678310

Enter value for category: Fun

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet id','&category')

new 1: insert into tweet values('The ganga is at the heart of our civilisation. I am glad you spent time in varanasi

@Yasho.','P',7803,'ZX678310','Fun')

1 row created.

SQL> select message, tweet\_id from tweet;

MESSAGE TWEET\_ID

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A new dawn, fresh vigour and renewed hope in Assam!. TY1456278

Strolling in sidney. Tx129674

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Sending my best wishes to the Indian U19 Cricket team QW189528

ahead of their world cup final.

Stronger together. Happy Republic Day to all of us. QP196328

In such a massive country like India, only 2200 people AS190634

have declared their annual income over 1cr

The ganga is at the heart of our civilisation. I am ZX678310

glad you spent time in varanasi @Yasho6960.

6 rows selected.

SQL> select tweet\_id,polarity,likes,category from tweet;

TWEET_ID	Р	LIKES	CATEGORY
	-		
TY1456278	Р	4024	Social
Tx129674	Р	1234	Fun
QW189528	Р	9876	Sports
QP196328	Р	9123	Social
AS190634	N	1450	Social
ZX678310	Р	7803	Fun

```
SQL> create table posts(
```

2 user\_id varchar2(10) references users(user\_id),

3 tweet id varchar2(10) references tweet(tweet id),

4 p date date);

Table created.

SQL> insert into posts values('&user\_id','&tweet\_id', '&p\_date');

Enter value for user\_id: Badri2428

Enter value for tweet id: TY1456278

Enter value for p\_date: 22-JAN-2018

old 1: insert into posts values('&user\_id','&tweet\_id', '&p\_date')

new 1: insert into posts values('Badri2428','TY1456278', '22-JAN-2018')

1 row created.

SQL>/

Enter value for user\_id: Badri2428

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for tweet id: ZX678310

Enter value for p date: 09-AUG-2010

old 1: insert into posts values('&user\_id','&tweet\_id', '&p\_date')

new 1: insert into posts values('Badri2428','ZX678310', '09-AUG-2010')

1 row created.

SQL>/

Enter value for user\_id: Yash6960

Enter value for tweet id: Tx129674

Enter value for p\_date: 24-DEC-2017

old 1: insert into posts values('&user\_id','&tweet\_id', '&p\_date')

new 1: insert into posts values('Yash6960','Tx129674', '24-DEC-2017')

1 row created.

SQL>/

Enter value for user\_id: Abhi5007

Enter value for tweet id: QW189528

Enter value for p\_date: 14-FEB-2018

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

old 1: insert into posts values('&user id','&tweet id', '&p date')

new 1: insert into posts values('Abhi5007','QW189528', '14-FEB-2018')

1 row created.

SQL>/

Enter value for user\_id: Prana0680

Enter value for tweet id: QP196328

Enter value for p date: 26-JAN-2020

old 1: insert into posts values('&user\_id','&tweet\_id', '&p\_date')

new 1: insert into posts values('Prana0680','QP196328', '26-JAN-2020')

1 row created.

SQL>/

Enter value for user id: bel007

Enter value for tweet\_id: AS190634

Enter value for p\_date: 22-JAN-2019

old 1: insert into posts values('&user id','&tweet id', '&p date')

new 1: insert into posts values('bel007','AS190634', '22-JAN-2019')

# DBMS ASSIGNMENT I Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

1 row created.

SQL> alter table posts add(primary key(user\_id,tweet\_id));

Table altered.

SQL> desc posts;

Name Null? Type

------

USER\_ID NOT NULL VARCHAR2(10)

TWEET\_ID NOT NULL VARCHAR2(10)

P\_DATE DATE

SQL> select \* from posts;

USER_ID	TWEET_ID	P_DATE
Badri2428	TY1456278	22-JAN-18
Badri2428	ZX678310	09-AUG-10
Yash6960	Tx129674	24-DEC-17

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Abhi5007 QW189528 14-FEB-18

Prana0680 QP196328 26-JAN-20

bel007 AS190634 22-JAN-19

6 rows selected.

SQL> create table following(

2 f\_user\_id references users(user\_id));

Table created.

SQL> desc following;

Name Null? Type

-----

F\_USER\_ID VARCHAR2(10)

SQL> insert into following values('&f\_user\_id');

Enter value for f user id: Badri2428

old 1: insert into following values('&f\_user\_id')

new 1: insert into following values('Badri2428')

1 row created.

```
DBMS ASSIGNMENT I
```

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

SQL>/

Enter value for f user id: Abhi5007

old 1: insert into following values('&f\_user\_id')

new 1: insert into following values('Abhi5007')

1 row created.

SQL>/

Enter value for f\_user\_id: Yash6960

old 1: insert into following values('&f\_user\_id')

new 1: insert into following values('Yash6960')

1 row created.

SQL>/

Enter value for f user id: Prana0680

old 1: insert into following values('&f\_user\_id')

new 1: insert into following values('Prana0680')

1 row created.

```
SQL>/
Enter value for f_user_id: bel007
old 1: insert into following values('&f_user_id')
new 1: insert into following values('bel007')
1 row created.
SQL> create table has(
 2 user_id varchar2(10),
 3 f_user_id varchar2(10),
 4 since date);
Table created.
SQL> alter table has add(foreign key(user id) references users);
Table altered.
SQL> desc has;
ROLL NO:1602-18-737-066
```

Name: Thodupunuri Badrinath

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Name Null? Type

------

USER\_ID VARCHAR2(10)

F\_USER\_ID VARCHAR2(10)

SINCE DATE

SQL> insert into has values('&user\_id','&f\_user\_id','&since');

Enter value for user\_id: Badri2428

Enter value for f user id: bel007

Enter value for since: 12-JUL-2019

old 1: insert into has values('&user\_id','&f\_user\_id','&since')

new 1: insert into has values('Badri2428','bel007','12-JUL-2019')

1 row created.

SQL>/

Enter value for user\_id: Badri2428

Enter value for f\_user\_id: Yash6960

Enter value for since: 27-DEC-2016

old 1: insert into has values('&user\_id','&f\_user\_id','&since')

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

new 1: insert into has values('Badri2428','Yash6960','27-DEC-2016')

1 row created.

SQL>/

Enter value for user\_id: Abhi5007

Enter value for f\_user\_id: Badri2428

Enter value for since: 11-JAN-2001

old 1: insert into has values('&user id','&f user id','&since')

new 1: insert into has values('Abhi5007', 'Badri2428', '11-JAN-2001')

1 row created.

SQL>/

Enter value for user id: Abhi5007

Enter value for f user id: Prana0680

Enter value for since: 12-NOV-2017

old 1: insert into has values('&user\_id','&f\_user\_id','&since')

new 1: insert into has values('Abhi5007','Prana0680','12-NOV-2017')

1 row created.

SQL>/

Enter value for user id: Yash6960

Enter value for f user id: Badri2428

Enter value for since: 17-FEB-2014

old 1: insert into has values('&user\_id','&f\_user\_id','&since')

new 1: insert into has values('Yash6960', 'Badri2428', '17-FEB-2014')

1 row created.

SQL>/

Enter value for user\_id: Prana0680

Enter value for f\_user\_id: Abhi5007

Enter value for since: 12-SEP-2019

old 1: insert into has values('&user id','&f user id','&since')

new 1: insert into has values('Prana0680','Abhi5007','12-SEP-2019')

1 row created.

### SQL> select \* from has;

USER_ID	F_USER_ID	SINCE			
Badri2428	bel007	12-JUL-19			
Badri2428	Yash6960	27-DEC-16			
Abhi5007	Badri2428	11-JAN-01			
Abhi5007	Prana0680	12-NOV-17			
Yash6960	Badri2428	17-FEB-14			
Prana0680	Abhi5007	12-SEP-19			
6 rows selected.					

### SQL> create table response

```
2 (
```

3 r\_user\_id varchar2(10) references users(user\_id),

4 replied\_date date,

5 category varchar2(6),

6 meassage varchar2(100),

7 message\_id varchar2(10));

### Table created.

# DBMS ASSIGNMENT I Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

SQL> alter table response rename column meassage to message;

Table altered.

SQL> alter table response add(primary key(message\_id));

Table altered.

SQL> desc response;

Name	Null?	Туре

-----

R\_USER\_ID VARCHAR2(10)

REPLIED\_DATE DATE

CATEGORY VARCHAR2(6)

MESSAGE VARCHAR2(100)

MESSAGE\_ID NOT NULL VARCHAR2(10)

SQL> insert into response

values('&r\_user\_id','&replied\_date','&category','&message','&message\_id');

Enter value for r\_user\_id: Prana0680

Enter value for replied\_date: 12-FEB-2020

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for category: Reply

Enter value for message: Yeah its shocking.

Enter value for message id: QW12345

old 1: insert into response

values('&r\_user\_id','&replied\_date','&category','&message','&message\_id')

new 1: insert into response values('Prana0680','12-FEB-2020','Reply','Yeah its shocking.','QW12345')

1 row created.

SQL>/

Enter value for r\_user\_id: Yash6960

Enter value for replied date: 11-FEB-2020

Enter value for category: REPLY

Enter value for message: Yeah! It was awfull.

Enter value for message\_id: QN18756

old 1: insert into response

values('&r user id','&replied date','&category','&message','&message id')

new 1: insert into response values('Yash6960','11-FEB-2020','REPLY','Yeah! It was awfull.','QN18756')

SQL> select r user id, replied date, category, message id from response;

R\_USER\_ID REPLIED\_D CATEGO MESSAGE\_ID

-----

Prana0680 12-FEB-20 Reply QW12345

Yash6960 11-FEB-20 REPLY QN18756

SQL> select message, message\_id from response;

MESSAGE\_ID

-----

Yeah its shocking QW12345

Yeah! It was awfull. QN18756

SQL> create table has\_a (

- 2 tweet\_id varchar2(10) references tweet(tweet\_id),
- 3 message\_id varchar2(10) references response(message\_id),
- 4 r\_polarity char(1));

Table created.

SQL> desc has\_a

Name Null? Type

------

TWEET\_ID VARCHAR2(10)

MESSAGE\_ID VARCHAR2(10)

R POLARITY CHAR(1)

SQL> insert into has\_a values('&tweet\_id','&message\_id','&r\_polarity');

Enter value for tweet id: AS190634

Enter value for message\_id: QW12345

Enter value for r polarity: P

old 1: insert into has\_a values('&tweet\_id','&message\_id','&r\_polarity')

new 1: insert into has a values('AS190634','QW12345','P')

1 row created.

SQL>/

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for tweet\_id: ZX678310

Enter value for message id: QN18756

Enter value for r polarity: P

old 1: insert into has\_a values('&tweet\_id','&message\_id','&r\_polarity')

new 1: insert into has a values('ZX678310','QN18756','P')

1 row created.

SQL> select \* from has\_a;

TWEET\_ID MESSAGE\_ID R

------

AS190634 QW12345 P

ZX678310 QN18756 P

TNAME TABTYPE CLUSTERID

------

FOLLOWING TABLE

HAS TABLE

HAS\_A TABLE

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

POSTS TABLE

RESPONSE TABLE

TWEET TABLE

USERS TABLE

7 rows selected.

SQL> rename has to users\_following;

Table renamed.

SQL> desc users\_following;

Name Null? Type

-----

USER\_ID VARCHAR2(10)

F\_USER\_ID VARCHAR2(10)

SINCE DATE

SQL> rename posts to users\_tweet;

Table renamed.

SQL> desc users\_tweet;

Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION

Name Null? Type

-----

USER\_ID NOT NULL VARCHAR2(10)

TWEET\_ID NOT NULL VARCHAR2(10)

P DATE DATE

SQL> rename has\_a to tweet\_response;

Table renamed.

SQL> select \* from tab;

TNAME TABTYPE CLUSTERID

-----

FOLLOWING TABLE

RESPONSE TABLE

TWEET TABLE

TWEET\_RESPONSE TABLE

USERS TABLE

USERS\_FOLLOWING TABLE

DBMS ASSIGNMENT I
Title:TWITTER DATA MANAGEMENT OF USERS IN A REGION
USERS\_TWEET TABLE

7 rows selected.