--CREATE DATABASE--

CREATE DATABASE TWITTERDB;

--USE PARTICULAR DATABASE--

USE TWITTERDB;

--CREATE TWEETS TABLE--

CREATE TABLE TWEETS

(

TWEET\_ID INT PRIMARY KEY,

USER\_ID INT NOT NULL,

TYPE VARCHAR(50),

TWEET\_DATE DATE NOT NULL,

MESSAGE VARCHAR(100) NOT NULL,

TOTAL\_LIKES INT

);

INSERT INTO TWEETS(TWEET\_ID,USER\_ID,TYPE,TWEET\_DATE,MESSAGE,TOTAL\_LIKES) VALUES(1,4,'IMAGES','2021-03-04','MESSAGES FROM A"MAMATHA"',3429);

INSERT INTO TWEETS(TWEET\_ID,USER\_ID,TYPE,TWEET\_DATE,MESSAGE,TOTAL\_LIKES) VALUES(2,1,'LINKS','2020-05-12','MESSAGES FROM "KULASEKHAR"',5425);

INSERT INTO TWEETS(TWEET\_ID,USER\_ID,TYPE,TWEET\_DATE,MESSAGE,TOTAL\_LIKES) VALUES(3,2,'QUOTES','2021-07-09','MESSAGES FROM "AVINASH"',7472);

INSERT INTO TWEETS(TWEET\_ID,USER\_ID,TYPE,TWEET\_DATE,MESSAGE,TOTAL\_LIKES) VALUES(4,5,'RETWEETS','2021-02-12','MESSAGES FROM "SAI AKASH"',6742);

INSERT INTO TWEETS(TWEET\_ID,USER\_ID,TYPE,TWEET\_DATE,MESSAGE,TOTAL\_LIKES) VALUES(5,3,'COMMENTS','2021-10-10','MESSAGES FROM "INDRAJA"',3472);

SELECT \* FROM TWEETS;

--CREATE USERS TABLE--

CREATE TABLE USERS

(

ID INT PRIMARY KEY,

USERNAME VARCHAR(40),

EMAIL VARCHAR(50),

CREATED\_AT DATE,

UPDATED\_AT DATE

);

INSERT INTO USERS VALUES(1,'INDRAJA REDDY','indrajaramireddy@gmail.com','2014-04-21','2019-02-28');

INSERT INTO USERS VALUES(2,'KULASEKAR REDDY','kulasekharreddy@gmail.com','2009-04-07','2014-03-05');

INSERT INTO USERS VALUES(3,'SAI AKASH','saiakash12@gmail.com','2017-03-15','2019-09-18');

INSERT INTO USERS VALUES(4,'JALLA MAMATHA','mamathajalla@gmail.com','2014-05-26','2019-12-20');

INSERT INTO USERS VALUES(5,'AVINASH','avinash123@gmail.com','2017-06-14','2018-05-12');

SELECT \* FROM USERS;

-- CREATE TWEET\_LIKES TABLE--

CREATE TABLE TWEET\_LIKES

(

ID INT PRIMARY KEY,

POST\_ID INT,

USER\_ID INT,

CREATED\_AT DATE,

UPDATED\_AT DATE,

);

INSERT INTO TWEET\_LIKES VALUES(1,001,1000,'2014-05-10','2015-06-11');

INSERT INTO TWEET\_LIKES VALUES(2,002,1001,'2015-05-11','2016-06-12');

INSERT INTO TWEET\_LIKES VALUES(3,003,1002,'2016-05-12','2017-06-13');

INSERT INTO TWEET\_LIKES VALUES(4,004,1003,'2017-05-13','2018-06-14');

INSERT INTO TWEET\_LIKES VALUES(5,005,1004,'2018-05-14','2019-06-15');

SELECT \* FROM TWEET\_LIKES;

ALTER TABLE TWEET\_LIKES

ADD NO\_OF\_LIKES INT;

TRUNCATE TABLE TWEET\_LIKES;

INSERT INTO TWEET\_LIKES VALUES(1,001,1000,'2014-05-10','2015-06-11',456);

INSERT INTO TWEET\_LIKES VALUES(2,002,1001,'2015-05-11','2016-06-12',492);

INSERT INTO TWEET\_LIKES VALUES(3,003,1002,'2016-05-12','2017-06-13',590);

INSERT INTO TWEET\_LIKES VALUES(4,004,1003,'2017-05-13','2018-06-14',577);

INSERT INTO TWEET\_LIKES VALUES(5,005,1004,'2018-05-14','2019-06-15',376);

-- CREATE USERFEEDS TABLE--

CREATE TABLE USERFEEDS

(

ID INT PRIMARY KEY,

POST\_ID INT,

CREATED\_AT DATE,

UPDATED\_AT DATE,

);

INSERT INTO USERFEEDS VALUES(1,100,'2016-03-15','2018-05-29');

INSERT INTO USERFEEDS VALUES(2,101,'2017-07-25','2020-04-18');

INSERT INTO USERFEEDS VALUES(3,102,'2015-08-13','2019-07-16');

INSERT INTO USERFEEDS VALUES(4,103,'2008-02-16','2021-01-15');

INSERT INTO USERFEEDS VALUES(5,104,'2005-06-30','2020-04-25');

SELECT \* FROM USERFEEDS;

--CREATE USER\_FOLLOWERS TABLE--

CREATE TABLE USER\_FOLLOWERS

(

ID INT PRIMARY KEY,

USERID INT,

FOLLOWERID INT,

CREATED\_AT DATE,

UPDATED\_AT DATE

);

INSERT INTO USER\_FOLLOWERS VALUES(1,11,12,'2014-04-21','2019-02-28');

INSERT INTO USER\_FOLLOWERS VALUES(2,12,13,'2009-04-07','2014-03-05');

INSERT INTO USER\_FOLLOWERS VALUES(3,13,14,'2017-03-15','2019-09-18');

INSERT INTO USER\_FOLLOWERS VALUES(4,14,15,'2014-05-26','2019-12-20');

INSERT INTO USER\_FOLLOWERS VALUES(5,15,16,'2017-06-14','2018-05-12');

SELECT \* FROM USER\_FOLLOWERS;

--CREATE COMMENTS TABLE--

CREATE TABLE COMMENTS

(

ID INT PRIMARY KEY,

POST\_ID INT,

USER\_ID1 VARCHAR(40),

COMMENT VARCHAR(100),

UPDATED\_AT DATE,

CREATED\_AT DATE

);

INSERT INTO COMMENTS VALUES(1,94,11,'WHAT ALONE MUST THINKING','2016-06-22','2016-06-29');

INSERT INTO COMMENTS VALUES(2,87,22,'WHY THINGS HAPPENS LIKE THAT','2034-04-12','2034-04-29');

INSERT INTO COMMENTS VALUES(3,43,33,'ANYTHING HAPPEND IN THE WORLD','2015-05-22','2015-05-29');

INSERT INTO COMMENTS VALUES(4,33,34,'JAI BALLAYA','2014-04-12','2014-04-19');

INSERT INTO COMMENTS VALUES(5,44,35,'HAPPY BDY BALLAYA','2013-07-22','2013-07-29');

SELECT \* FROM COMMENTS;

-- ADDING FOREIGN KEY CONSTRAINTS--

ALTER TABLE TWEET\_LIKES ADD FOREIGN KEY(ID) REFERENCES USER\_FOLLOWERS(ID);

ALTER TABLE TWEETS ADD FOREIGN KEY(TWEET\_ID) REFERENCES USERS(ID);

ALTER TABLE USERS ADD FOREIGN KEY(ID) REFERENCES USERFEEDS(ID);

ALTER TABLE TWEET\_LIKES ADD FOREIGN KEY(ID) REFERENCES USERS(ID);

ALTER TABLE TWEET\_LIKES ADD FOREIGN KEY(ID) REFERENCES TWEETS(TWEET\_ID);

ALTER TABLE COMMENTS ADD FOREIGN KEY(ID) REFERENCES TWEETS(TWEET\_ID);

ALTER TABLE USERFEEDS ADD FOREIGN KEY(ID) REFERENCES USER\_FOLLOWERS(ID);

ALTER TABLE USER\_FOLLOWERS ADD FOREIGN KEY(ID) REFERENCES TWEETS(TWEET\_ID);

--MAMATHA--

/\*1.WRITE A QUERY TO DISPLAY TWEETS POSTED BY USER AND TYPE NAME END WITH S\*/

SELECT \* FROM TWEETS T WHERE USER\_ID=1 AND TYPE LIKE'%S' ORDER BY TWEET\_DATE DESC;

/\*2.WRITE A QUERY TO DISPLAY TWEETS OF THE FOLLOWERS NEED TO BE ACCESSED USING A JOIN \*/

SELECT T.USER\_ID,T.TOTAL\_LIKES,F.FOLLOWERID FROM TWEETS T JOIN USER\_FOLLOWERS F

ON (USER\_ID = ID) WHERE FOLLOWERID =15 ORDER BY TWEET\_ID DESC;

/\*3.WRITE A QUERY TO DISPLAY TWEETS\_ID,TYPE ,EMAIL FROM USERS AND TWEETS TABLE USING WHERE CLUASE\*/

SELECT T.TWEET\_ID,T.TYPE,U.EMAIL

FROM TWEETS T,USERS U

WHERE T.USER\_ID = U.ID;

/\*4.WRITE A QUERY DISPLAY TO USERID AND NO.OF USERID FROM TWEETS TABLE USING GROUP BY AND HAVING \*/

SELECT USER\_ID,COUNT(USER\_ID) FROM TWEETS

GROUP BY USER\_ID

HAVING COUNT(USER\_ID)>=1;

/\*5.WRITE A QUERY DISPLAY TWEET\_ID,USERNAME FROM TWO TABLES USING INNER JOIN\*/

SELECT TWEETS.TWEET\_ID,USERS.USERNAME

FROM USERS INNER JOIN TWEETS ON USERS.ID = TWEETS.USER\_ID;

--INDRAJA--

/\*1.WRITE A QUERY TO SELECT USERID IS GREATER THAN EQUAL TO 1 AND TWEET\_ID IS LESS THAN EQUALTO 2\*/

SELECT U.ID FROM USERS U WHERE ID>=1

UNION ALL

SELECT T.TWEET\_ID FROM TWEETS T WHERE TWEET\_ID<=2;

/\*2.WRITE A QUERY TO DISPLAY USERNAME AND EMAIL BY USING SINGLE ROW FUNCTIONS \*/

SELECT LOWER(USERNAME),UPPER(EMAIL) FROM USERS;

/\*3.WRITE A QUERY TO DISPLAY THE POST\_ID IF THEY ARE CREATED INT THE YEAR 2016 \*/

SELECT POST\_ID,CREATED\_AT FROM USERFEEDS WHERE CREATED\_AT LIKE'%16';

/\*4.WRITE A QUERY TO SELECT TWEET\_ID,T.TYPE,U.ID,U.USERNAME USING RIGHT JOIN \*/

SELECT T.TWEET\_ID,T.TYPE,U.ID,U.USERNAME FROM TWEETS T RIGHT JOIN USERS U ON T.TWEET\_ID=U.ID;

/\*5.WRITE A QUERY TO DISPLAY POSTID AND USER NAME FROM TWO TABLES USING INNER JOIN \*/

SELECT UF.ID,UF.POST\_ID,U.ID,U.USERNAME FROM USERFEEDS UF INNER JOIN USERS U ON UF.ID=U.ID;

--AVINASH--

--SAI AKASH--

/\*1.WRITE A QUERY TO SELECT TWEET ID,USERNAME,EMAIL,BY USING FULL JOIN\*/

SELECT T.TWEET\_ID,U.USERNAME,U.EMAIL FROM TWEETS T FULL JOIN USERS U ON T.USER\_ID=U.ID;

/\*2.WRITE A QUERY TO SELECT TWEET ID AND TYPE EXCEPT TWEET\_ID IS 1\*/

SELECT TWEET\_ID,TYPE FROM TWEETS EXCEPT SELECT TWEET\_ID,TYPE FROM TWEETS WHERE TWEET\_ID=1;

/\*3.WRITE A QUERY TO SELECT USER FEEDID,CREATE DATE WHERE NO OF LIKES GREATER THAN 300 \*/

SELECT UF.ID,UF.CREATED\_AT FROM USERFEEDS UF WHERE UF.ID IN(SELECT TL.ID FROM TWEET\_LIKES TL WHERE NO\_OF\_LIKES>=300);

/\*4.WRITE A QUERY TO SELECT POSTID,USERNAME,MESSAGE USING WHERE CLAUSE\*/

SELECT TL.POST\_ID,U.USERNAME,T.MESSAGE FROM TWEET\_LIKES TL,USERS U,TWEETS T WHERE TL.ID=U.ID AND U.ID=T.TWEET\_ID;

/\*5.WRITE A QUERY TO SELECT FOLLOWERID AS TWITTERID AND USERNAME AS TWEET\_NAME USING ALIAS\*/

SELECT FOLLOWERID AS TWITTER\_ID,USERNAME AS TWEET\_NAME FROM USER\_FOLLOWERS UF,USERS U WHERE UF.ID>

(SELECT U.ID FROM TWEET\_LIKES WHERE UPDATED\_AT='2016-06-12');

--KULASEKHAR--

/\*WAQ TO SELECT THE DETAIL OF THE USERNAME WHOSE NAME\*/

SELECT \* FROM USERS WHERE USERNAME LIKE '%E\_\_%';

/\*WAQ TO SELECT TWEETS OF THE USERS WHOSE TOTAL LIKES BETWEEN 3000 AND 4000\*/

SELECT \* FROM TWEETS WHERE TOTAL\_LIKES BETWEEN 3000 AND 4000;

/\*WAQ TO DISPLAY ID,MESSAGE FROM USER FOLLOWERS USING INNER JOIN AND TOTAL LIKES IN 3429,3472 \*/

SELECT DISTINCT UF.ID,T.MESSAGE FROM USER\_FOLLOWERS UF INNER JOIN TWEETS T

ON UF.ID=T.TWEET\_ID AND T.TOTAL\_LIKES IN(3429,3472);

/\*WAQ TO DISPLAY TOP 3 NO\_OF\_LIKES FROM TWEET\_LIKES\*/

SELECT TOP 3 \* FROM TWEET\_LIKES ORDER BY NO\_OF\_LIKES;

/\*WAQ TO SELECT ID,FOLLOWERID FROM USERFOLLOWERS USING SUBQUERY AND TOTAL LIKES IS GREATER THAN 3000 \*/

SELECT UF.ID,UF.FOLLOWERID FROM USER\_FOLLOWERS UF WHERE UF.ID IN(SELECT T.TWEET\_ID FROM TWEETS T WHERE TOTAL\_LIKES>=3000);