

```

mysql> SOURCE C:\Users\15856\Documents\Database\PE\PE09\Khorramrouz.sql
-----
DROP DATABASE IF EXISTS PE09
-----

Query OK, 0 rows affected, 1 warning (0.00 sec)

-----
CREATE Database PE09
-----

Query OK, 1 row affected (0.01 sec)

Database changed
-----
CREATE TABLE TWEET (
    TWEET_ID INT NOT NULL AUTO_INCREMENT,
    TWEET_TEXT VARCHAR(140) NOT NULL,
    TWEET_DATE DATETIME NOT NULL,
    TWEET_USER_ID INT NOT NULL,
    PRIMARY KEY (TWEET_ID)
)
-----

Query OK, 0 rows affected (0.01 sec)

-----
CREATE TABLE MENTION (
    MENTION_ID INT NOT NULL AUTO_INCREMENT,
    TWEET_ID INT NOT NULL,
    MENTION_USER_ID INT NOT NULL,
    MENTION_TEXT VARCHAR(140) NOT NULL,
    PRIMARY KEY (MENTION_ID),
    FOREIGN KEY (TWEET_ID) REFERENCES TWEET(TWEET_ID)
)
-----

Query OK, 0 rows affected (0.01 sec)

-----
INSERT INTO TWEET (TWEET_TEXT, TWEET_DATE, TWEET_USER_ID) VALUES ('I am Ali', '2017-10-10 10:10:10',
1)
-----

Query OK, 1 row affected (0.00 sec)

-----
INSERT INTO TWEET (TWEET_TEXT, TWEET_DATE, TWEET_USER_ID) VALUES ('I am Sara', '2017-10-11 10:10:10',
2)
-----

Query OK, 1 row affected (0.00 sec)

-----
INSERT INTO TWEET (TWEET_TEXT, TWEET_DATE, TWEET_USER_ID) VALUES ('I am John', '2017-10-12 10:10:10',
3)
-----

Query OK, 1 row affected (0.00 sec)

-----
INSERT INTO TWEET (TWEET_TEXT, TWEET_DATE, TWEET_USER_ID) VALUES ('I ma Adel', '2017-10-13 10:10:10',
4)
-----

Query OK, 1 row affected (0.00 sec)

-----
INSERT INTO TWEET (TWEET_TEXT, TWEET_DATE, TWEET_USER_ID) VALUES ('I ma Adel Again After one year',
'2018-10-10 10:10:10', 4)
-----

Query OK, 1 row affected (0.00 sec)

-----

```

```
INSERT INTO TWEET (TWEET_TEXT, TWEET_DATE, TWEET_USER_ID) VALUES ('I am John, It has been a year since my last tweet', '2018-11-10 10:10:10', 3)
```

```
Query OK, 1 row affected (0.00 sec)
```

```
INSERT INTO TWEET (TWEET_TEXT, TWEET_DATE, TWEET_USER_ID) VALUES ('Hi Adel, Missed you long time no see', '2018-11-11 10:10:10', 2)
```

```
Query OK, 1 row affected (0.00 sec)
```

```
INSERT INTO MENTION (TWEET_ID, MENTION_USER_ID, MENTION_TEXT) VALUES (1, 2, 'Hi Ali, How are you?')
```

```
Query OK, 1 row affected (0.00 sec)
```

```
INSERT INTO MENTION (TWEET_ID, MENTION_USER_ID, MENTION_TEXT) VALUES (2, 3, 'Hi Sara, How are you?')
```

```
Query OK, 1 row affected (0.00 sec)
```

```
INSERT INTO MENTION (TWEET_ID, MENTION_USER_ID, MENTION_TEXT) VALUES (3, 4, 'Hi John, How are you?')
```

```
Query OK, 1 row affected (0.00 sec)
```

```
INSERT INTO MENTION (TWEET_ID, MENTION_USER_ID, MENTION_TEXT) VALUES (4, 1, 'Hi Adel, How are you?')
```

```
Query OK, 1 row affected (0.00 sec)
```

```
INSERT INTO MENTION (TWEET_ID, MENTION_USER_ID, MENTION_TEXT) VALUES (2, 2, 'I am glad all is good Sara?')
```

```
Query OK, 1 row affected (0.00 sec)
```

```
INSERT INTO MENTION (TWEET_ID, MENTION_USER_ID, MENTION_TEXT) VALUES (3, 3, 'I am glad, all is good John?')
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SOURCE C:\Users\15856\Documents\Database\PE\PE09\queries.sql
Database changed
```

```
-- 1. Query of all the records of the STRONG entity
```

```
SELECT * FROM tweet
```

TWEET_ID	TWEET_TEXT	TWEET_DATE	TWEET_USER_ID
1	I am Ali	2017-10-10 10:10:10	1
2	I am Sara	2017-10-11 10:10:10	2
3	I am John	2017-10-12 10:10:10	3
4	I ma Adel	2017-10-13 10:10:10	4
5	I ma Adel Again After one year	2018-10-10 10:10:10	4
6	I am John, It has been a year since my last tweet	2018-11-10 10:10:10	3
7	Hi Adel, Missed you long time no see	2018-11-11 10:10:10	2

```
7 rows in set (0.00 sec)
```

```
-- 2. Query of all the records of the WEAK entity
```

```
SELECT * FROM MENTION
```

```

-----
+-----+-----+-----+-----+
| MENTION_ID | TWEET_ID | MENTION_USER_ID | MENTION_TEXT |
+-----+-----+-----+-----+
|          1 |          1 |          2 | Hi Ali, How are you? |
|          2 |          2 |          3 | Hi Sara, How are you? |
|          3 |          3 |          4 | Hi John, How are you? |
|          4 |          4 |          1 | Hi Adel, How are you? |
|          5 |          2 |          2 | I am glad all is good Sara? |
|          6 |          3 |          3 | I am glad, all is good John? |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

```

-- 3. Query of selective data from BOTH the STRONG entity & WEAK entity
-- all mentions of all tweets that have the word "Ali" or "Sara" in them

```

```

-----
SELECT tweet.TWEET_ID, mention.MENTION_ID, tweet.TWEET_TEXT, tweet.TWEET_DATE, mention.MENTION_TEXT
FROM mention
  join tweet USING(TWEET_ID)
 WHERE tweet.TWEET_TEXT LIKE '%Ali%' OR tweet.TWEET_TEXT LIKE '%Sara%'
-----

```

```

+-----+-----+-----+-----+-----+
| TWEET_ID | MENTION_ID | TWEET_TEXT | TWEET_DATE | MENTION_TEXT |
+-----+-----+-----+-----+-----+
|          1 |          1 | I am Ali   | 2017-10-10 10:10:10 | Hi Ali, How are you? |
|          2 |          2 | I am Sara  | 2017-10-11 10:10:10 | Hi Sara, How are you? |
|          2 |          5 | I am Sara  | 2017-10-11 10:10:10 | I am glad all is good Sara? |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

```
mysql> notee;
```