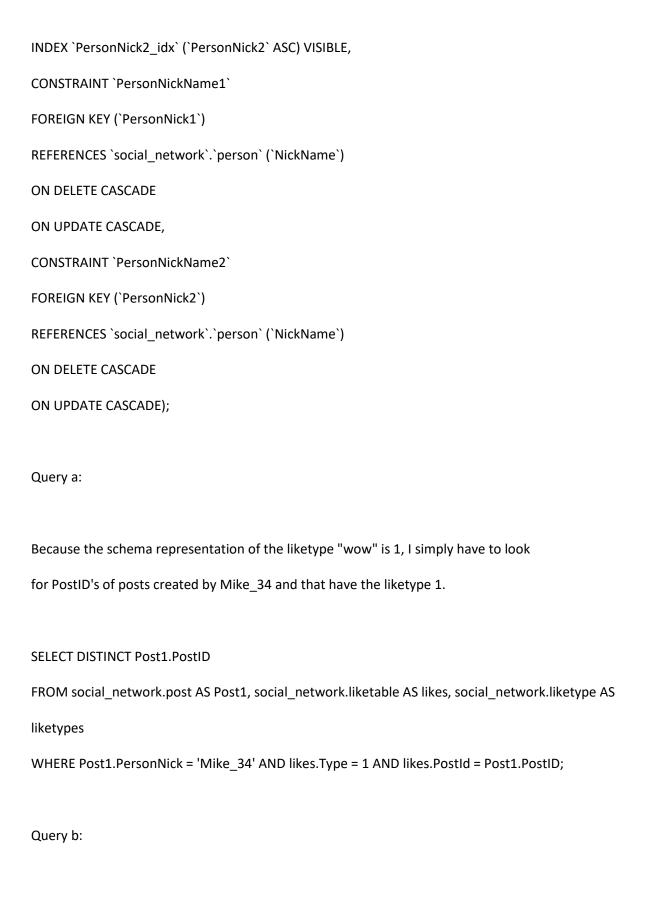
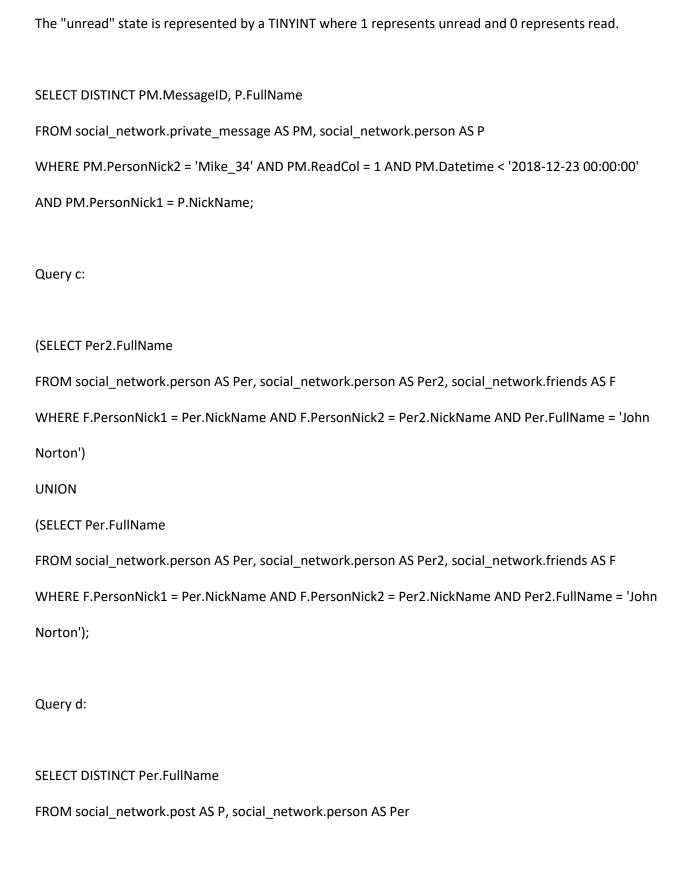
```
CREATE SCHEMA 'social_network';
CREATE TABLE `social_network`.`person` ( // the schema specification implies not using the schema
'NickName' VARCHAR(15) NOT NULL,
`FullName` VARCHAR(45) NOT NULL,
`BirthDate` DATE NOT NULL,
PRIMARY KEY ('NickName'));
CREATE TABLE `social_network`.`post` (
'PostID' INT NOT NULL,
'Datetime' DATETIME NOT NULL,
'Content' VARCHAR(45) NOT NULL,
'PersonNick' VARCHAR(15) NOT NULL,
'WallPersonNick' VARCHAR(15) NOT NULL,
PRIMARY KEY ('PostID'),
INDEX `PersonNick_idx` (`PersonNick` ASC, `WallPersonNick` ASC) VISIBLE,
CONSTRAINT 'PersonNick'
FOREIGN KEY ('PersonNick')
REFERENCES `social_network`.`person` (`NickName` )
ON DELETE CASCADE
ON UPDATE CASCADE,
CONSTRAINT `WallPersonNick`
FOREIGN KEY ('WallPersonNick')
REFERENCES `social_network`.`person` (`NickName`)
```

```
ON DELETE CASCADE
ON UPDATE CASCADE);
CREATE TABLE `social_network`.`friends` (
`PersonNick1` VARCHAR(15) NOT NULL,
'PersonNick2' VARCHAR(15) NOT NULL,
PRIMARY KEY ('PersonNick1', 'PersonNick2'),
INDEX `PersonNick2_idx` (`PersonNick2` ASC) VISIBLE,
CONSTRAINT 'PersonNick1'
FOREIGN KEY (`PersonNick1`)
REFERENCES `social_network`.`person` (`NickName`)
ON DELETE CASCADE
ON UPDATE CASCADE,
CONSTRAINT 'PersonNick2'
FOREIGN KEY ('PersonNick2')
REFERENCES `social_network`.`person` (`NickName`)
ON DELETE CASCADE
ON UPDATE CASCADE);
CREATE TABLE `social_network`.`liketype` (
'liketype' INT NOT NULL,
'likename' VARCHAR(45) NOT NULL,
PRIMARY KEY (`liketype`));
```

```
CREATE TABLE 'social_network'.'like' (
'PostId' INT NOT NULL,
'PersonNick' VARCHAR(15) NOT NULL,
'Datetime' DATETIME NOT NULL,
'Type' INT NOT NULL,
PRIMARY KEY ('PostId', 'PersonNick'),
INDEX `Type_idx` (`Type` ASC) VISIBLE,
CONSTRAINT 'Type'
FOREIGN KEY ('Type')
REFERENCES 'social_network'.'liketype' ('liketype')
ON DELETE CASCADE
ON UPDATE CASCADE,
CONSTRAINT 'PostID'
FOREIGN KEY ('PostId')
REFERENCES `social_network`.`post` (`PostID`)
ON DELETE CASCADE
ON UPDATE CASCADE);
CREATE TABLE `social_network`.`comment` (
'CommentID' INT NOT NULL,
'PostID' INT NOT NULL,
`PersonNick` VARCHAR(15) NOT NULL,
'Datetime' DATETIME NOT NULL,
`Text` VARCHAR(45) NOT NULL,
```

```
PRIMARY KEY ('CommentID'),
INDEX `PostID_idx` (`PostID` ASC) VISIBLE,
INDEX `PersonNick_idx` (`PersonNick` ASC) VISIBLE,
CONSTRAINT 'PostIDNum'
FOREIGN KEY ('PostID')
REFERENCES `social_network`.`post` (`PostID`)
ON DELETE CASCADE
ON UPDATE CASCADE,
CONSTRAINT 'PersonNickName'
FOREIGN KEY ('PersonNick')
REFERENCES `social_network`.`person` (`NickName`)
ON DELETE CASCADE
ON UPDATE CASCADE);
CREATE TABLE `social_network`.`private_message` (
`MessageID` INT NOT NULL,
'PersonNick1' VARCHAR(15) NOT NULL,
`PersonNick2` VARCHAR(15) NOT NULL,
'Datetime' DATETIME NOT NULL,
'Text' VARCHAR(45) NOT NULL,
`Read` TINYINT(1) NOT NULL,
`private_messagecol` VARCHAR(45) NULL,
PRIMARY KEY ('MessageID'),
INDEX `PersonNick1_idx` (`PersonNick1` ASC) VISIBLE,
```





```
WHERE P.PersonNick = Per.NickName AND P.PostID NOT IN (SELECT L.PostId FROM
social_network.liketable AS L) AND P.PostID NOT IN (SELECT C.PostID FROM social_network.comment
AS C);
Query e:
SELECT count(NickName) FROM social_network.person
WHERE NickName IN
       (SELECT Per.NickName
       FROM social_network.person AS Per, social_network.post AS P, social_network.liketable AS L
       WHERE P.PostId = L.PostId AND Per.NickName = L.PersonNick AND P.PersonNick = 'Mike_34')
AND NickName NOT IN
       (SELECT Per.NickName
       FROM social_network.person AS Per, social_network.post AS P, social_network.liketable AS L
       WHERE P.PostId = L.PostId AND Per.NickName = L.PersonNick AND P.PersonNick = 'Mary_56');
Query f:
SELECT DISTINCT L.PostId
FROM social network.liketable L
WHERE NOT EXISTS (
       SELECT *
  FROM social_network.liketype LT
       WHERE NOT EXISTS (
```

```
SELECT *
```

```
FROM social_network.liketable L2
    WHERE (L2.PostId = L.PostId) AND (L2.Type = LT.liketype)));
Query g:
SELECT FullName, count(PostID)
FROM social_network.post AS P, social_network.person AS Per
WHERE P.WallPersonNick = Per.NickName
GROUP BY P.WallPersonNick;
Query h:
UPDATE liketable SET social_network.liketype = (SELECT liketype FROM liketype WHERE
likename = 'fun') WHERE social_network.liketype = (SELECT liketype FROM liketype WHERE
likename = 'wow');
DELETE FROM liketype WHERE likename = 'wow';
```