# Tạo Bảng Managers:

```
CREATE TABLE `managers` (
    `ID_MNG` INT AUTO_INCREMENT NOT NULL,
    `TEN` VARCHAR(45) NOT NULL,
    `NAM_SINH` YEAR NULL,
    CONSTRAINT `PRIMARY` PRIMARY KEY (`ID_MNG`)
);
```

# Tạo bảng Reposter:

```
CREATE TABLE `reposter` (
   `ID_REPOSTER` INT AUTO_INCREMENT NOT NULL,
   `TEN` VARCHAR(45) NOT NULL,
   `TO_CHUC` VARCHAR(45) NULL,
   `nam_sinh` YEAR NULL,
   CONSTRAINT `PRIMARY` PRIMARY KEY (`ID_REPOSTER`)
);
```

# Tạo bảng users:

#### Tạo bảng Post:

```
CREATE TABLE 'post' (
    'ID_POST' INT AUTO_INCREMENT NOT NULL,
    'TIEU_DE' TEXT NOT NULL,
    'NOI DUNG' TEXT NOT NULL,
    'NOUOI DANG' INT NOT NULL,
    'NOUOI DANG' INT NOT NULL,
    'NOUOI DANG' INT NOT NULL,
    'NOUOI DYET' INT NULL,
    'NOUOI DYET' INT NULL,
    'thoi_gian_dang' DATE NULL,
    'xet_duyet' INT NULL,
    'constraint 'PRIMARY PRIMARY KEY ('ID_POST'),
    CONSTRAINT 'PRIMARY' PRIMARY KEY ('NGUOI_DUYET') REFERENCES 'managers' ('ID_MNG') ON DELETE NO ACTION ON UPDATE NO ACTION,
    CONSTRAINT 'Reposter_id_fk' FOREIGN KEY ('NGUOI_DANG') REFERENCES 'reposter' ('ID_REPOSTER') ON DELETE NO ACTION ON UPDATE NO ACTION
);
```

### Tạo bảng comment:

```
CREATE TABLE `comment` (
    `ID_COMMENT` INT AUTO_INCREMENT NOT NULL,
    `NGUOI_COMMENT` INT NOT NULL,
    `time_comment` DATE NULL,
    `noi_dung` TEXT NULL,
    `constraint `PRIMARY FRIMARY KEY ('ID_COMMENT`),
    CONSTRAINT `PRIMARY PRIMARY KEY ('NGUOI_COMMENT`) REFERENCES `users` ('ID_USER`) ON DELETE NO ACTION ON UPDATE NO ACTION
);
```

### Tạo bảng Share:

```
CREATE TABLE `share` (
   `ID_SHARE` INT AUTO_INCREMENT NOT NULL,
   `NOUOI_SHARE` INT NOT NULL,
   `time_share` DATE NULL,
   CONSTRAINT `PRIMARY` PRIMARY KEY ('ID_SHARE`),
   CONSTRAINT `PRIMARY` PRIMARY KEY ('NGUOI_SHARE`) REFERENCES `users` ('ID_USER`) ON DELETE NO ACTION ON UPDATE NO ACTION
);
```

## Insert dữ liệu vào các bảng:

```
INSERT INTO MANAGERS(TEN ,NAM_SINH)

VALUES ('HOANG ANH','1998'),

('VIET ANH','1990'),

('QUYNH NGUYEN','1995'),

('THANH THAO', '1996');

INSERT INTO REPOSTER (TEN ,NAM_SINH , TO_CHUC)

VALUES ('TRANG NGUYEN', '1980', 'BAO THANH NIEN'),

('TUAN ANH', '1999', 'BAO THE THAO'),

('TRINH DUONG', '1995', 'BAO PHAP LUAT'),

('THU THAO', '1997', 'DAI TRUYEN HINH VTC'),

('VIET NGUYEN', '1990', 'BAO VOV GIAO THONG');

INSERT INTO USERS (ACCOUNT_NAME, PASSWORDS, FACEBOOK_USER , EMAIL_USER, ID_MNG)

VALUES ('THANG TRINH', 12341235 , NULL, 'TRINHVANTHANG@GMAIL.COM', 2),

('HOAI AN', 12356789 , NULL, 'HOAIAN@GMAIL.COM', 1),

('NGUYEN NAM', 12345676, 'NGUYEN NAM', 'NGUYENNAM@GMAIL.COM', 4),

('DUNG NGUYEN', 45678453, 'DUNG CHERRY', 'DUNGNGUYEN@GMAIL.COM', 3),

('HOAN ANH TUAN', 66668888, 'TUAN ANH HOANG', 'TUANANH@GMAIL.COM', 3),

('NGUYEN HAI ANH', 11112222, NULL, NULL, 2),

('TRINH LONG', 22221111, NULL, NULL, 1),

('NGUYEN LONG', 00001111, NULL, 'NGUYENLONG@GMAIL.COM', 3),

('TRUONG THU THAO', 88889999, NULL, NULL, 1),

('LINH ANH', 11116666, 'ANH BLACKPINK', NULL, 4);
```

```
INSERT INTO POST (TIEU_DE, NOI_DUNG, IMAGES, LUOT_XEM, XET_DUYET, THOI_GIAN_DANG, NGUOI_DUYET, NGUOI_DANG)

VALUES ('LAO DONG', 'NGUOI_LAO DONG DANG THAT NGHIEP NHIEU......', NULL, 20 ,1 , '2018-01-20', 1 ,3),

('TIN AN NINH', ' VAO HOI_12H ....', NULL, 10 ,1, '2018-01-20', 1,4),

('GIAO THONG VB BAI TOAN KET XE', 'HOM NAY ....', NULL, 16 ,0, '2018-01-21', 1,1),

('LUAT HON NHAN GIAD DINH', 'THEO NGHI_DUYET....', NULL, 30 ,1, '2018-01-22', 4,5),

('GIAO DUC', 'KI THI THPT QUOC GIA NAM NAY ....', NULL, 50 ,1, '2018-01-22', 4,5),

('GIAO THONG', 'HOM NAY CO MO VU TAI NAN XE HOI ....', NULL, 10 ,1, '2018-02-24', 1,1),

('TIN QUOC TE', 'BÔ NGOAT GIAO VIET NAM SANG THAM CHTNH PHU CAMPUCHIA ....', NULL, 100 ,1, '2018-01-24', 4,5),

('SUC KHOE NGUOI DAN', 'HOM NAY, BO CONG AN PHONG CHONG THUC PHAM DO CHAI DÂ ....', NULL, 10 ,1, '2018-03-25', 2,5),

('PHAP LUAT', 'DU AN ALIBABA DA BỊ DNH CHI VI NGHI NGO CHU DOANH NGIEP NAY ....', NULL, 50 ,1 , '2018-03-25', 2,5),

('AN NINH', 'VAO HOI 15H CHEU NGAY HOM NAY, CONG AN DA BAT QUA TANG....', NULL, 40,1 , '2018-06-24', 4,1);

INSERT INTO COMMENT (TIME COMMENT, NOI DUNG, NGUOI COMMENT)

VALUES ('2018-01-22-12-20', 'TOI CUNG NGHI NHU VAY', 1),

('2018-01-23-12-12-1', 'KHONG THE CHAP NHAN DUOC', 4),

('2018-03-25-12-01', 'GIAO THONG DAO NAY CHAN QUA', 8),

('2018-03-25-12-01', 'GIAO THONG DAO NAY CHAN QUA', 8),

('2018-03-22-12-21', 'BUON THAT SU', 3),

('2018-03-12-12-20', 'CAC CHIEN SI TUYET VOI', 7),

('2018-03-12-12-20', 'CAC CHIEN SI LUON KHO MANH DE PHUC VU DAN', 2),

('2018-04-10-12-20', 'CAC CHIEN SI LUON KHO MANH DE PHUC VU DAN', 2),

('2018-04-10-12-20', 'KHONG BIET VAN SE RA DE GI DAY', 8);
```

### Các câu lệnh truy vấn:

## Tạo trigger và index:

```
create table comment_on_day(
    id_user int,
    day date,
    number_of_comment int,
    primary key (id_user,day)
);
-- tao trigger Luu lai moi user da thuc hien bao nhieu comment trong mot ngay
delimiter $$
create trigger handle_nums_of_comment_on_day
after insert on comment for each row
begin
    if(exists(select * from comment_on_day where id_user = new.nguoi_comment and day = new.time_comment))
    then
        update comment_on_day set number_of_comment = number_of_comment + 1 where id_user = new.nguoi_comment and day = new.time_comment;
else
    insert into comment_on_day(id_user,day,number_of_comment) values (new.nguoi_comment, new.time_comment,1);
end if;
end $$
delimiter;
-- TAO INDEX TREN COT TIEU_DE TRONG BANG POST DE GIUP VIEC TIM KIEM THEO THEO TIEU DE NHANH HON
CREATE INDEX post_heading_idx ON post(TIEU_DE(100));
-- Tao index tren cot thoi gian dang de tang toc do tim kiem post theo thoi gian dang
create index post_day_inx on post(thoi_gian_dang);
```