

# Lab 2 - SQL

CS 660 - Fall 2023

# Schema

MotionPicture (id, name, rating, production, budget)

User (email, name, age)

Likes (uemail, mpid)

Movie (mpid, boxoffice\_collection)

Series (mpid, season\_count)

People (id, name, nationality, dob, gender)

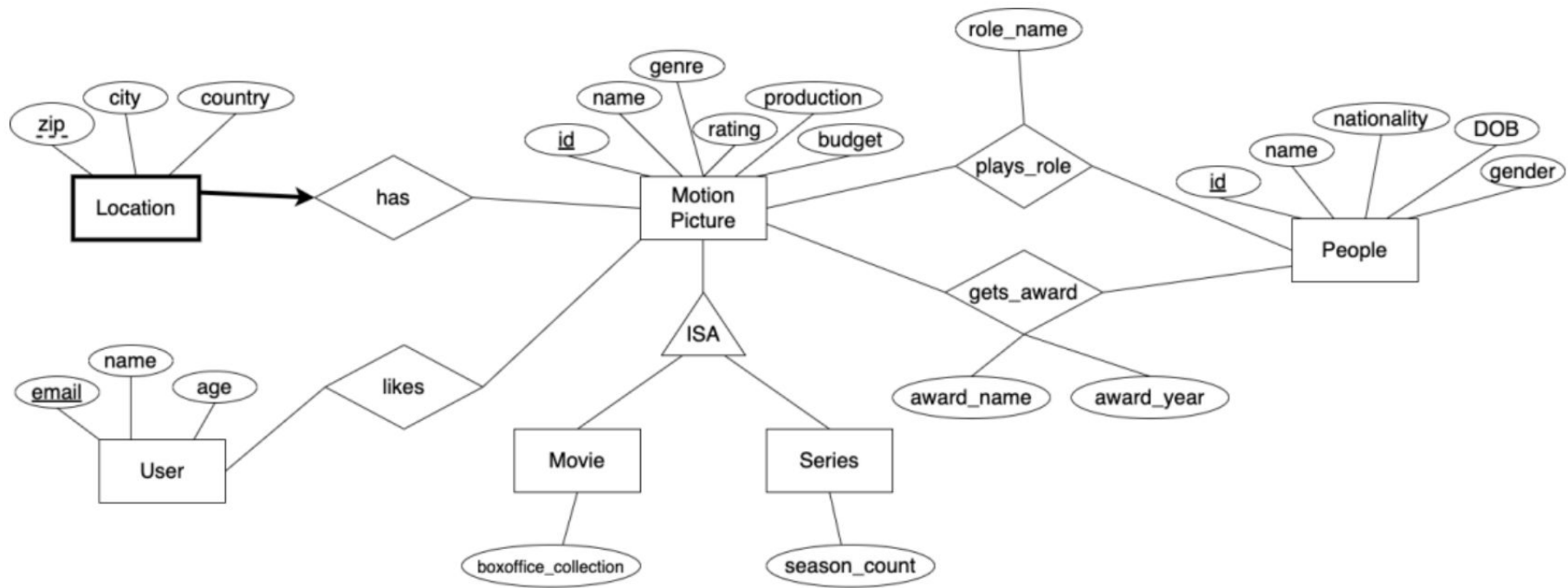
Role (mpid, pid, role\_name)

Award (mpid, pid, award\_name, award\_year)

Genre (mpid, genre\_name)

Location(mpid, zip, city, country)

Note: Primary keys are underlined and foreign keys are in **blue**.



# Exercise 1

List all the directors who have directed tv series that have been shot in a specific zip code '02215'.

List the director name and tv series name only without duplicates.

```
SELECT DISTINCT P.name, M.name
FROM Location L, MotionPicture M,
      Role R, People P, Series S
WHERE L.mpid = M.id
AND M.id = R.mpid
AND R.pid = P.id
AND M.id = S.mpid
AND R.role_name = 'director'
AND L.zipcode = '02212'
```

## Exercise 2

List the people who have played multiple roles in a motion picture where the rating is more than 8.0.

List the person name, motion picture name and count of roles for that motion picture.

```
SELECT P.name, M.name, COUNT(*)
FROM MotionPicture M, Role R,
     People P
WHERE M.id = R.mpid
AND P.id = R.pid
AND M.rating > 8.0
GROUP BY
     R.mpid, R.pid, P.name, M.name
HAVING COUNT(*) > 1
```

# Exercise 3

Find the actors who share the same birthday.

List the actor names (actor1, actor2) and their common birthday.

```
SELECT P1.name, P2.name FROM
(SELECT P.id, P.name, P.dob
  FROM People P, Role R
 WHERE P.id = R.pid
      AND R.role_name='Actor') P1
INNER JOIN
(SELECT P.id, P.name, P.dob
  FROM People P, Role R
 WHERE P.id = R.pid
      AND R.role_name='Actor') P2
ON P1.dob=P2.dob
WHERE P1.id > P2.id;
```