

# **MI 1.02: Report #11**

Due on

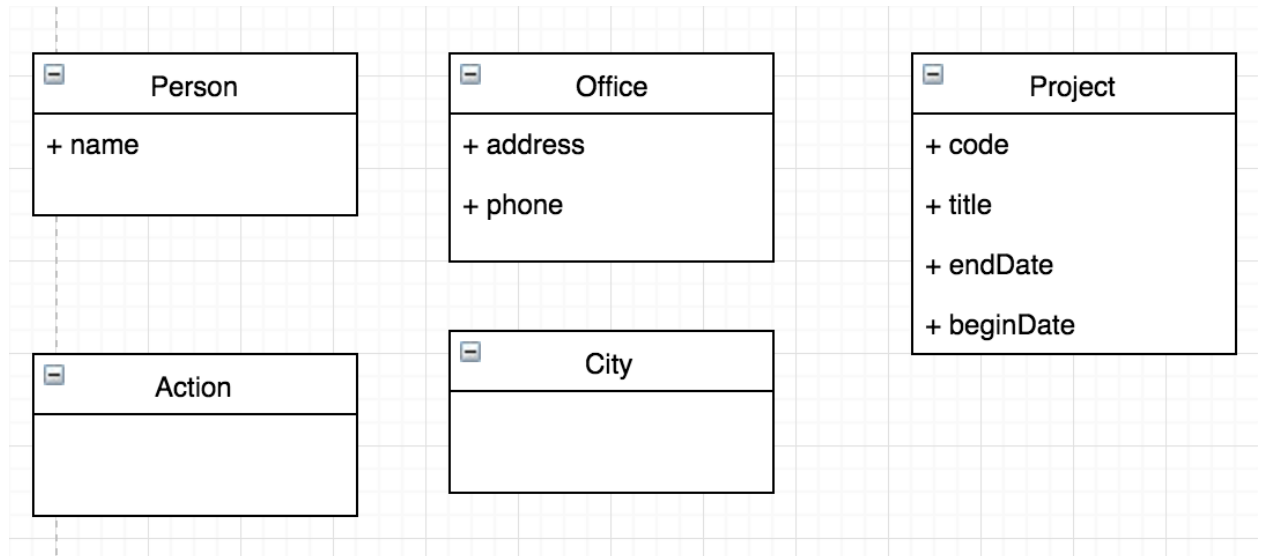
*Nghiem Thi Phuong 5:30pm*

**Cao Anh Quan**

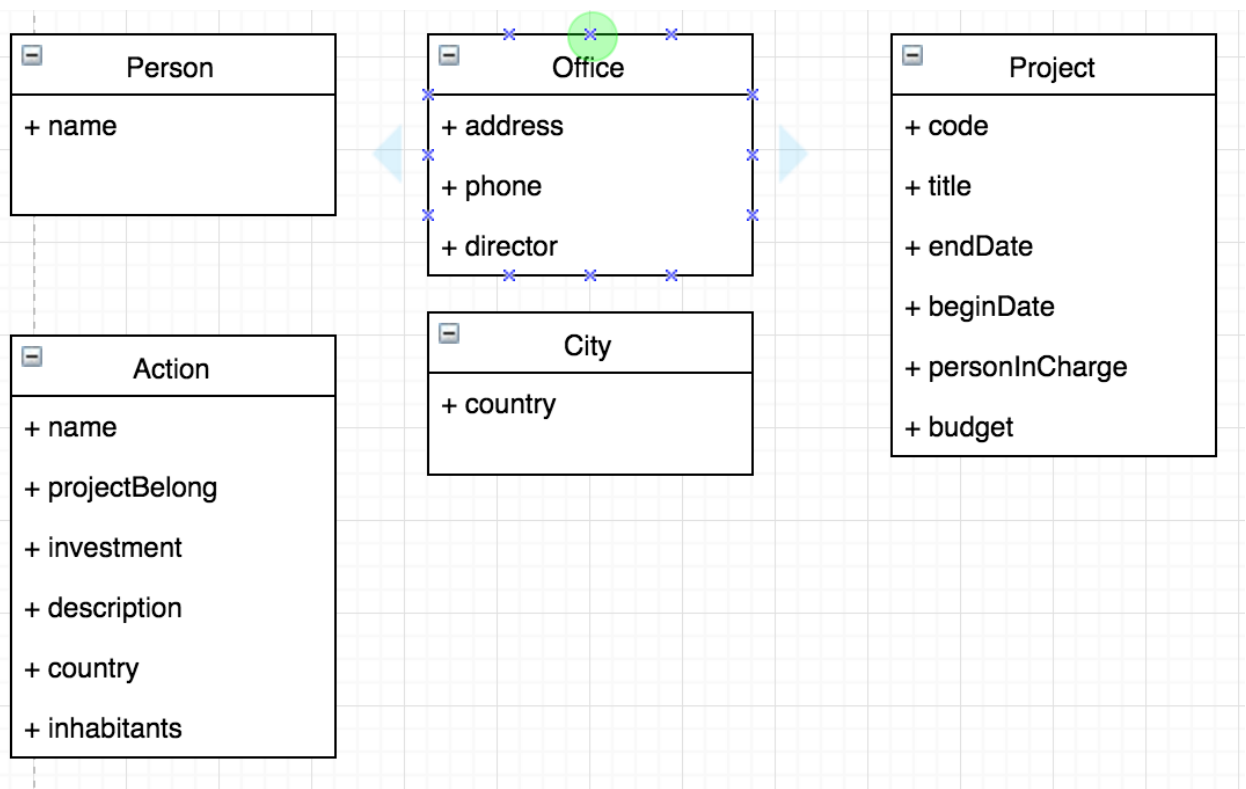
## Problem 1

### 1. Determine *Concepts*

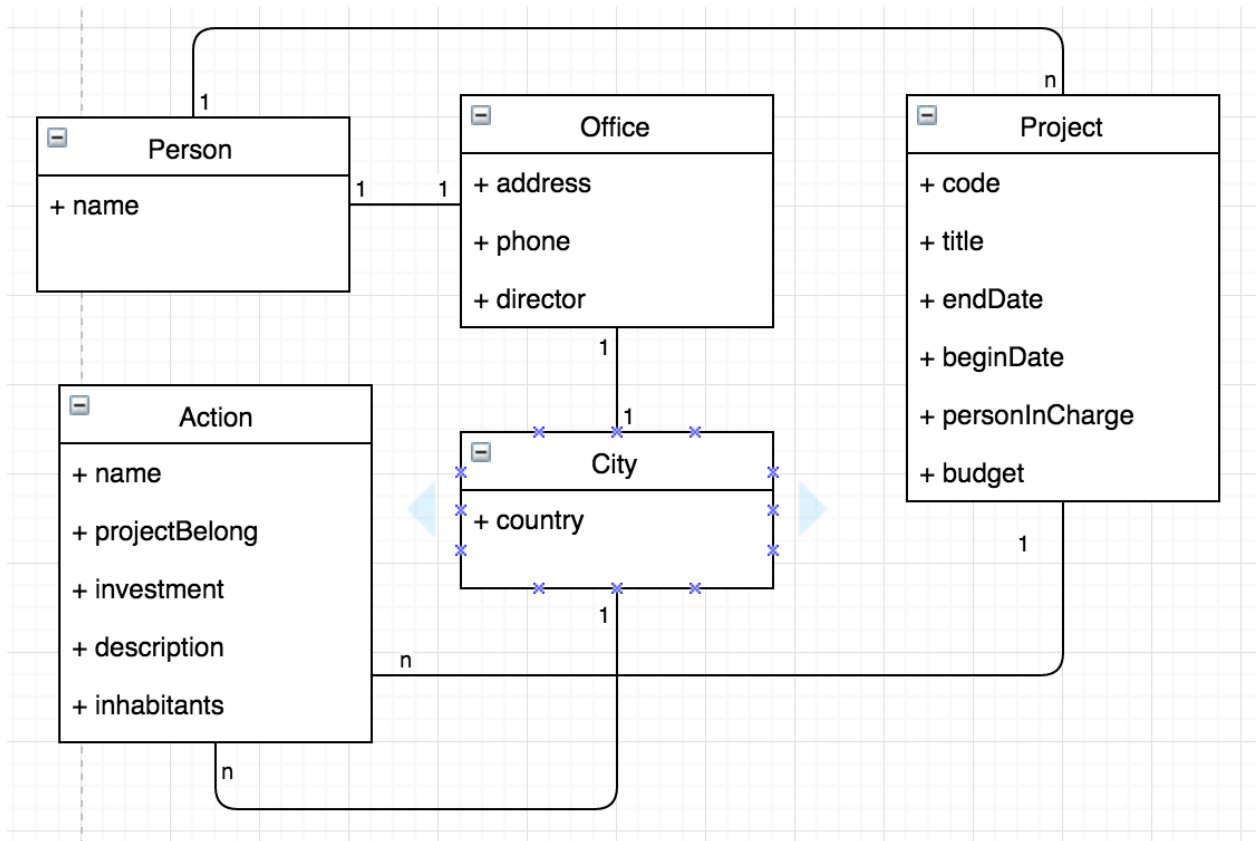
- Magazine
- Article
- Author



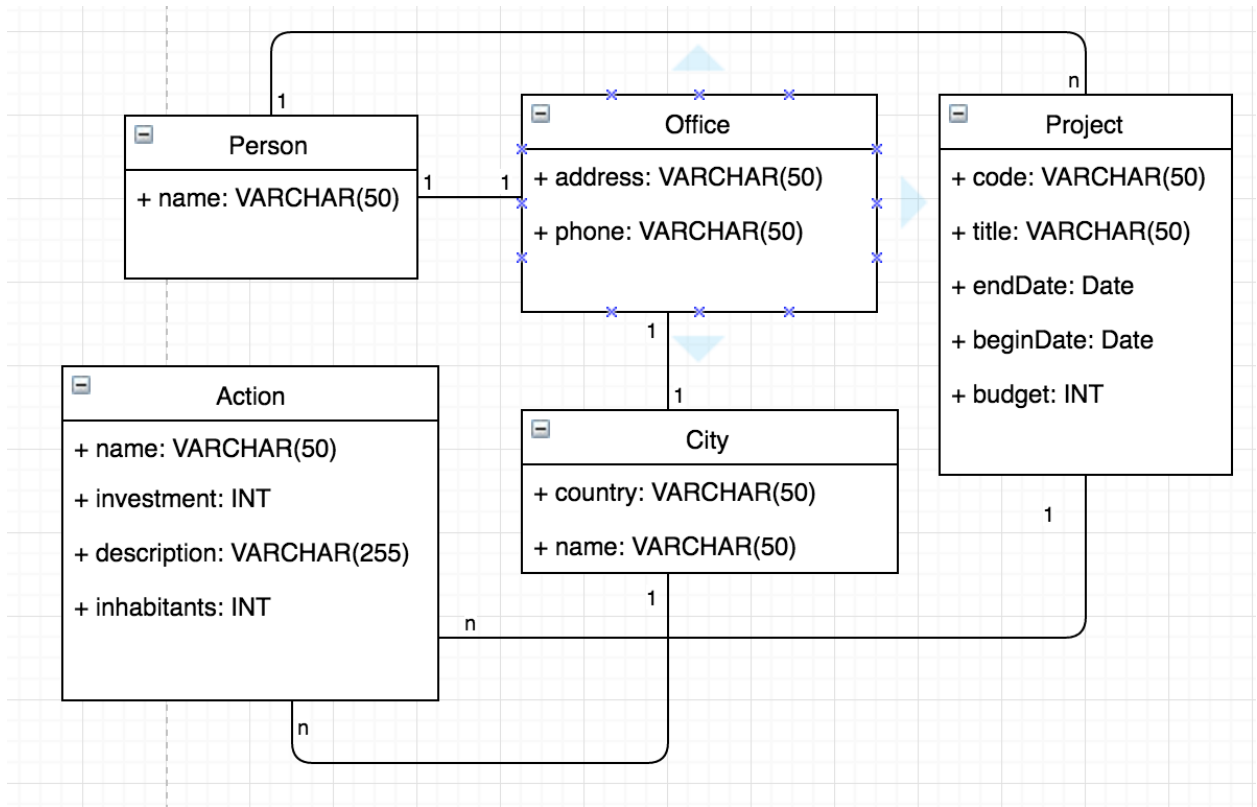
### 2. Determine Attributes of each concept



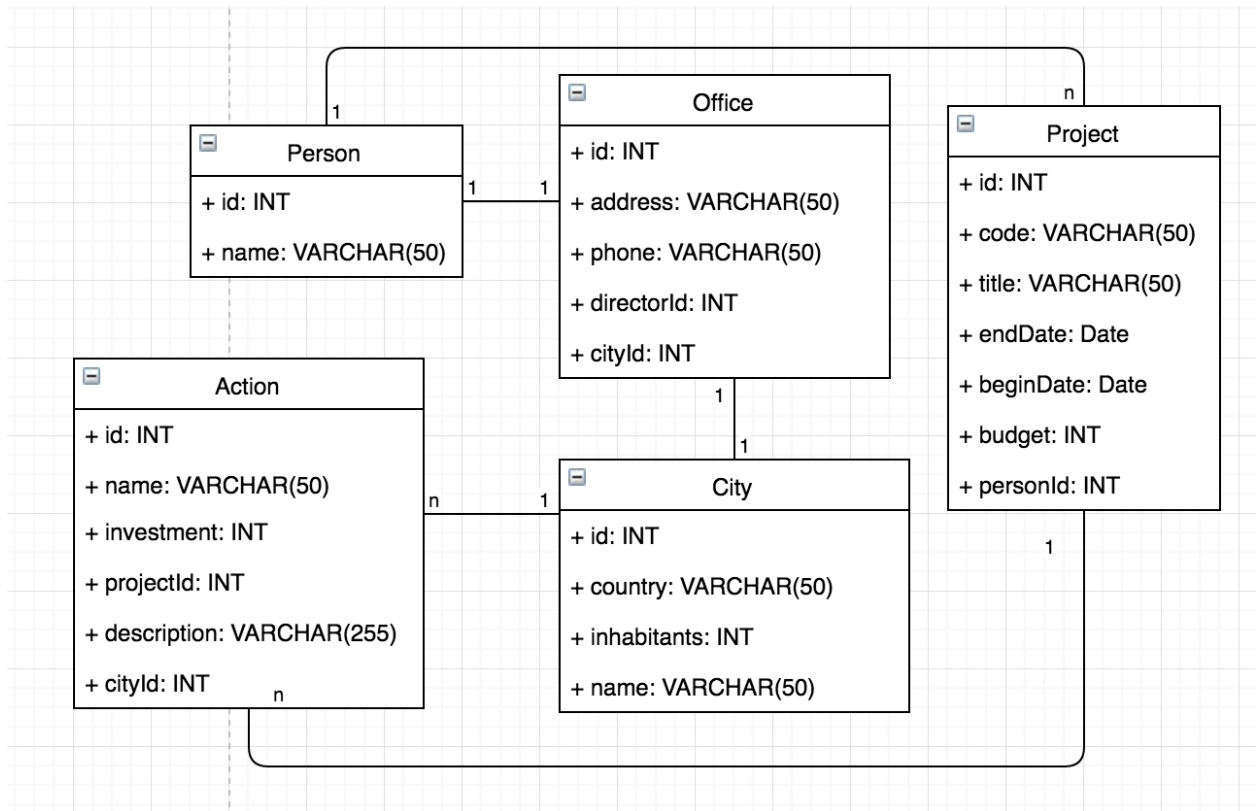
3. Determine links (relationships) between them



4. Determine types of each concept attribute



5. Solve foreign key links



## 6. Implementation

```

create database magazine;
use magazine;

5 CREATE TABLE Person (
    id INT NOT NULL AUTO_INCREMENT,
    name VARCHAR(50),
    PRIMARY KEY (id)
);

10 CREATE TABLE City (
    id INT NOT NULL AUTO_INCREMENT,
    name VARCHAR(50),
    country VARCHAR(50),
    15 inhabitants INT,
    PRIMARY KEY (id)
);

CREATE TABLE Office (
20 id INT NOT NULL AUTO_INCREMENT,
    directorId INT NOT NULL,
    cityId INT NOT NULL,
    address VARCHAR(50),
    phone VARCHAR(50),
    25 PRIMARY KEY (id),
    FOREIGN KEY (directorId) REFERENCES Person(id),

```

```
        FOREIGN KEY (cityId) REFERENCES City(id)
    );

30 CREATE TABLE Project (
    id INT NOT NULL AUTO_INCREMENT,
    code VARCHAR(50),
    title VARCHAR(50),
    endDate Date,
35 beginDate Date,
    budget INT,
    personId INT,
    PRIMARY KEY (id),
    FOREIGN KEY (personId) REFERENCES Person(id)
40 );

CREATE TABLE Action (
    id INT NOT NULL,
45 name VARCHAR(50),
    investment INT,
    projectId INT,
    cityId INT,
    description VARCHAR(255)
50 PRIMARY KEY (id),
    FOREIGN KEY (cityId) REFERENCES City(id),
    FOREIGN KEY (projectId) REFERENCES Project(id)
);
```