

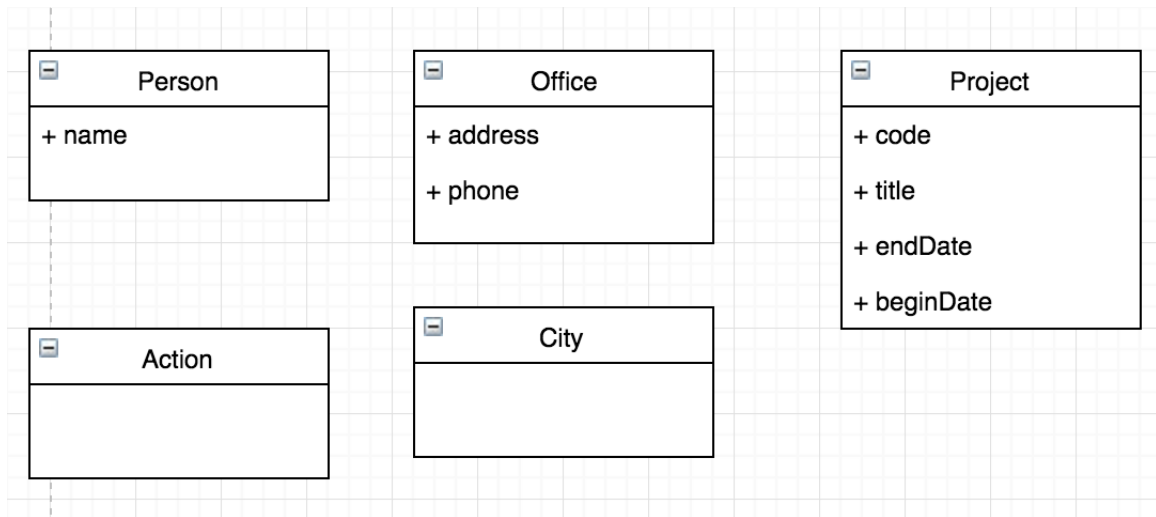
# Lab work report 11 - NGO

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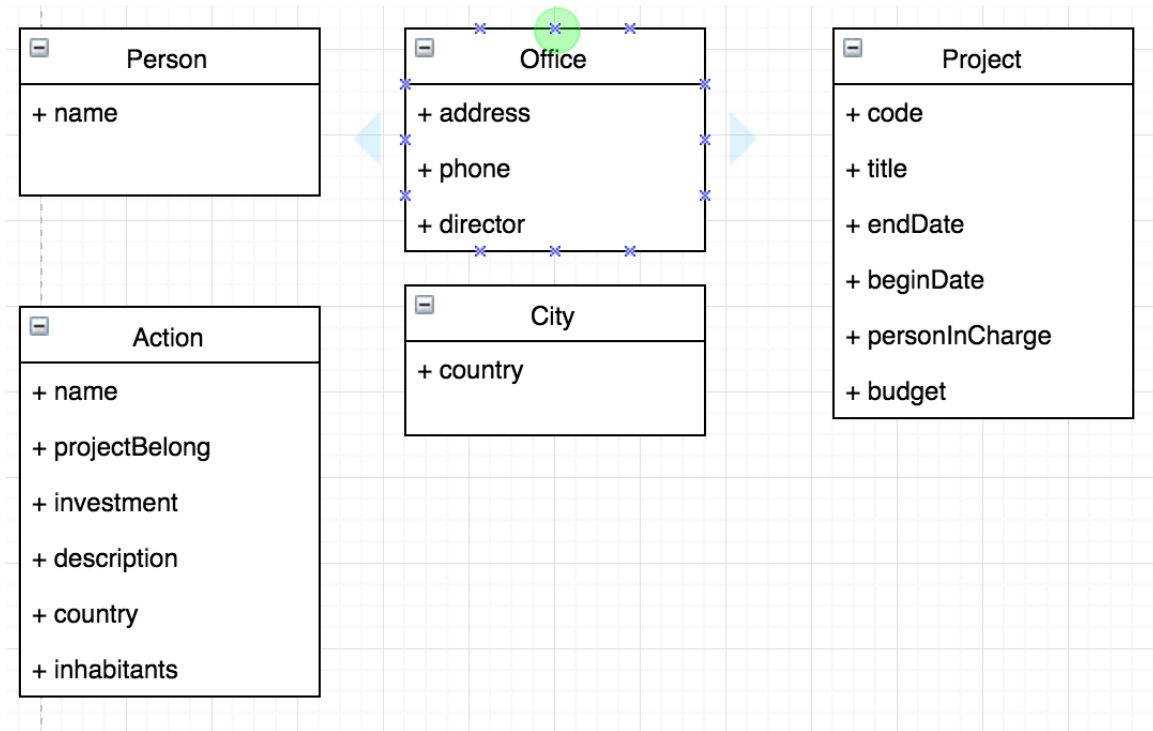
November 13, 2016

1. Determine *Concepts*

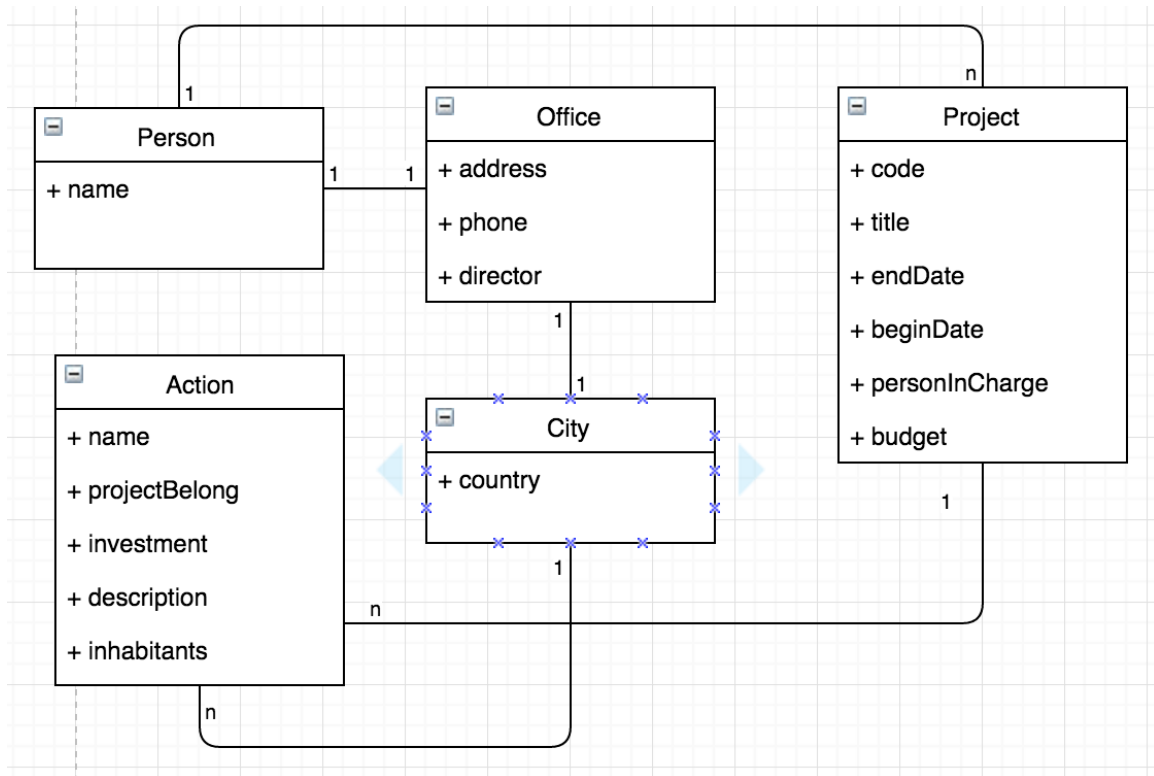
- Magazine
- Article
- Author



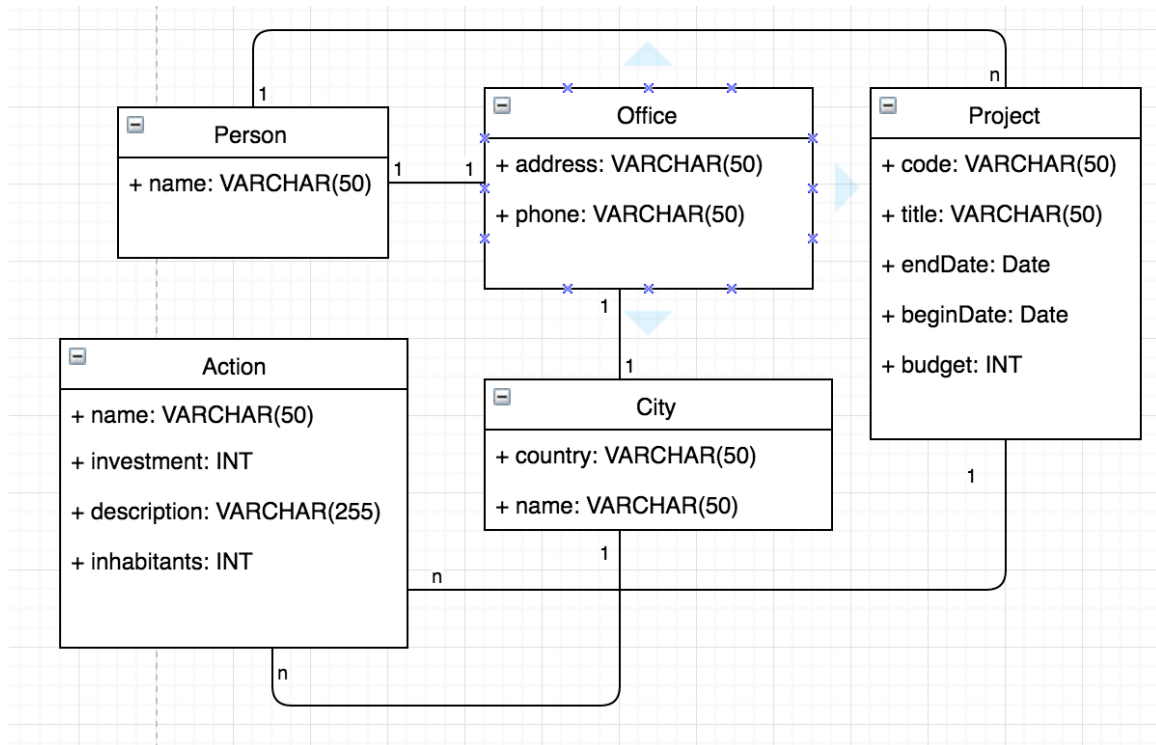
2. Determine Attributes of each concept



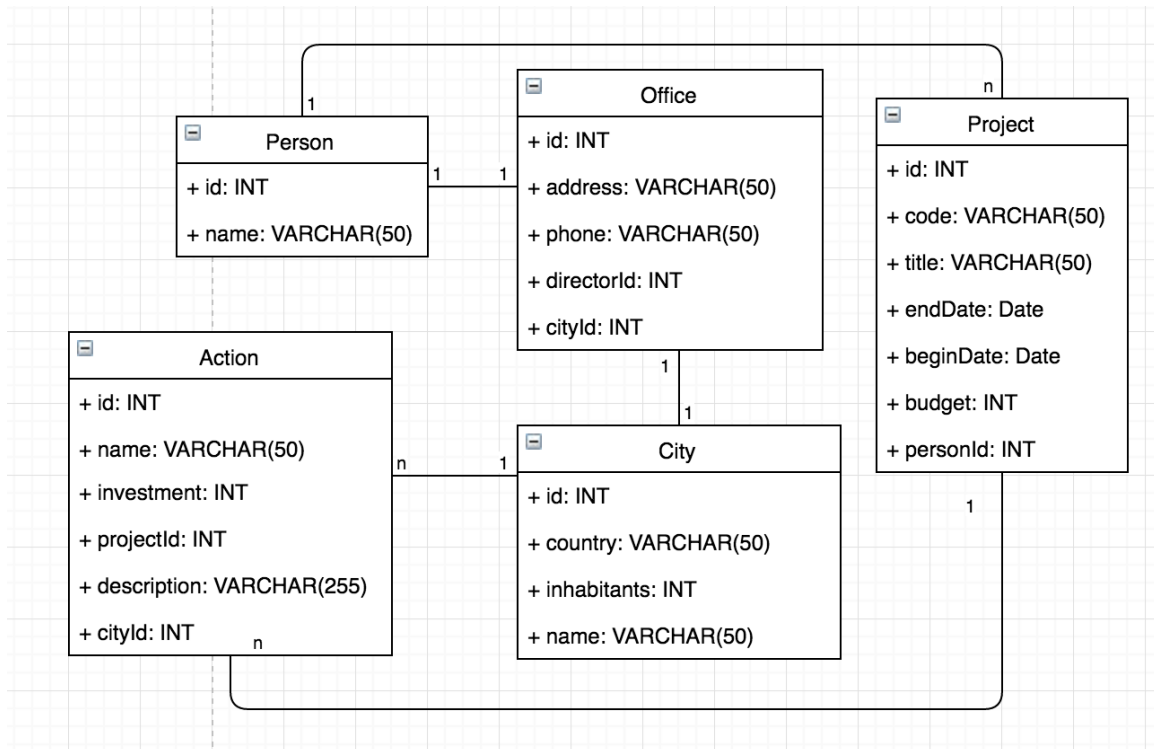
3. Determine links (relationships) between them



4. Determine types of each concept attribute



5. Solve foreign key links



## 6. Implementation

```
create database magazine;
use magazine;
```

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

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

```

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

```

```

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

```

```

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

```