

MI 1.02: Report #10

Due on

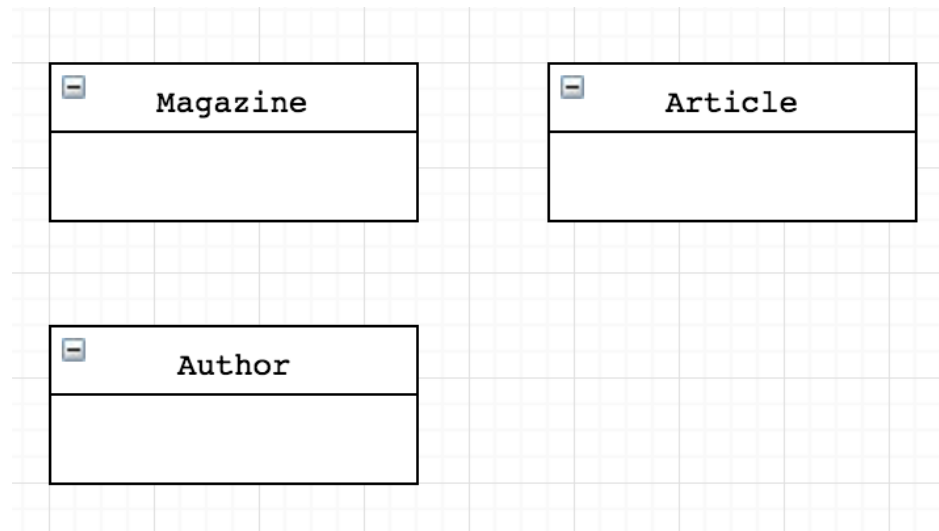
Nghiem Thi Phuong 5:30pm

Cao Anh Quan

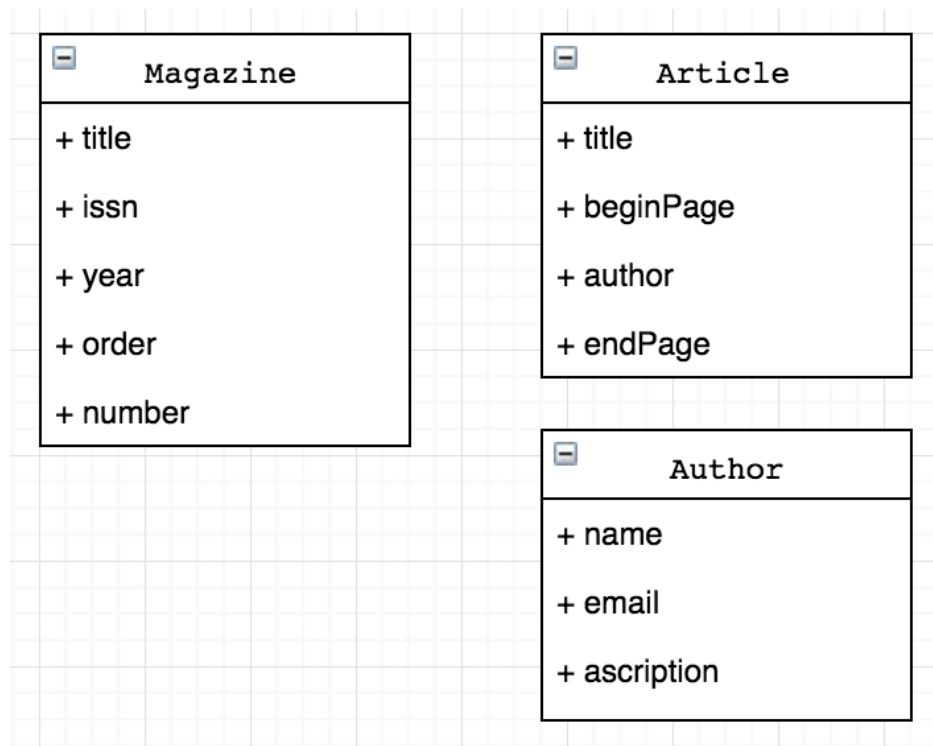
Problem 1

1. Determine *Concepts*

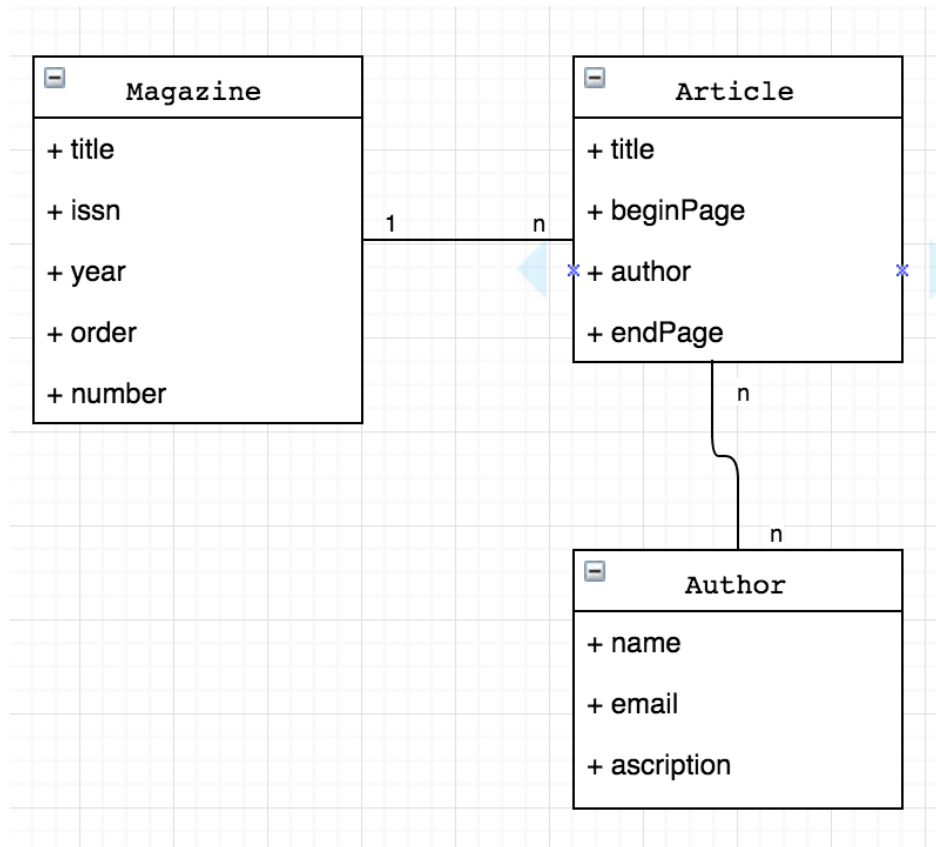
- Magazine
- Article
- Author



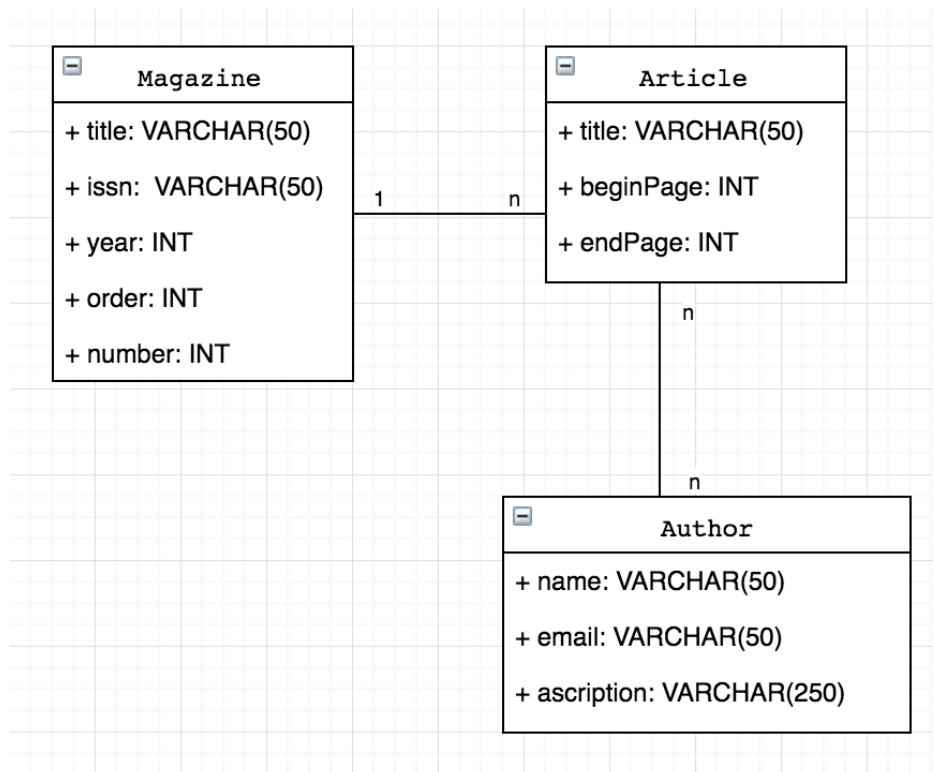
2. Determine Attributes of each concept



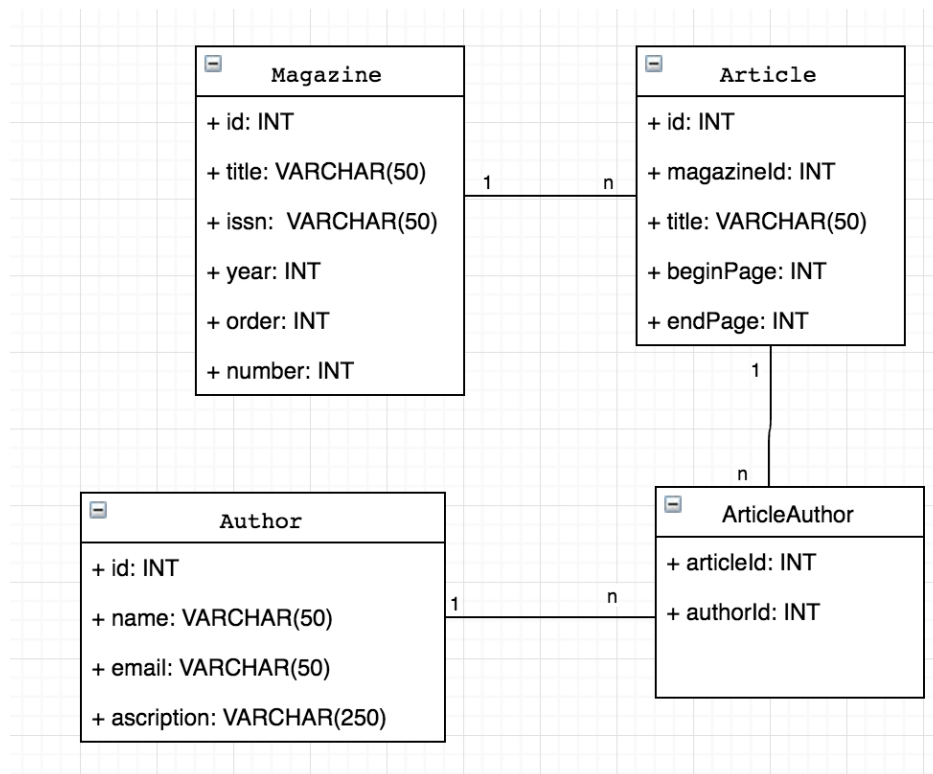
3. Determine links (relationships) between them



4. Determine types of each concept attribute



5. Solve foreign key links



6. Implementation

```

create database magazine;
use magazine;

5 CREATE TABLE Magazine (
    id INT NOT NULL AUTO_INCREMENT,
    title VARCHAR(50),
    issn VARCHAR(50),
    `year` INT,
10    `order` INT,
    number INT,
    PRIMARY KEY (id)
);

15 CREATE TABLE Article (
    id INT NOT NULL AUTO_INCREMENT,
    magazineId INT NOT NULL,
    title VARCHAR(50),
    beginPage INT,
20    endPage INT,
    PRIMARY KEY (id),
    FOREIGN KEY (magazineId) REFERENCES Magazine(id)
);

25 CREATE TABLE Author (

```

```
    id INT NOT NULL AUTO_INCREMENT,  
    name VARCHAR(50),  
    email VARCHAR(50),  
    ascription VARCHAR(250),  
30 PRIMARY KEY (id)  
);  
  
35 CREATE TABLE ArticleAuthor (  
    articleId INT NOT NULL,  
    authorId INT NOT NULL,  
    PRIMARY KEY (authorId, articleId),  
    FOREIGN KEY (articleId) REFERENCES Article(id),  
    FOREIGN KEY (authorId) REFERENCES Author(id)  
40 );
```