

# Lab work report 9 - Norm

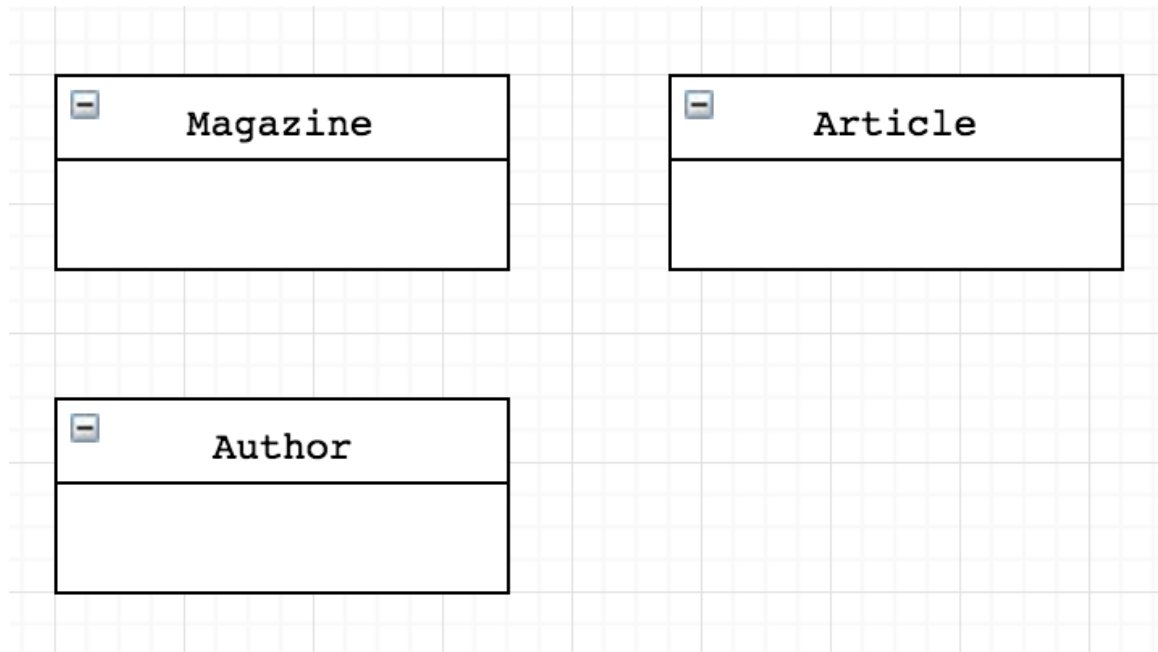
Cao Anh Quan - ICT Master

November 13, 2016

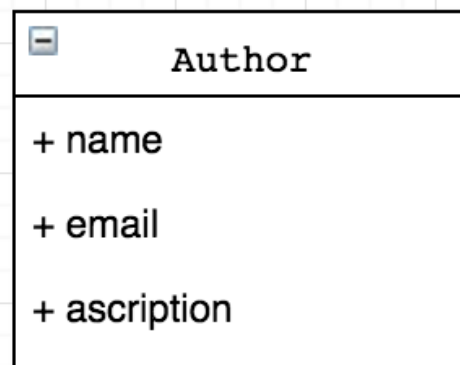
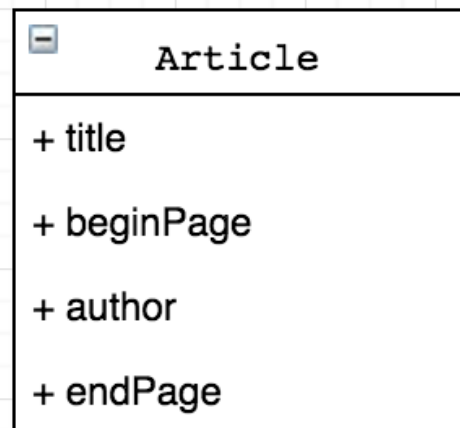
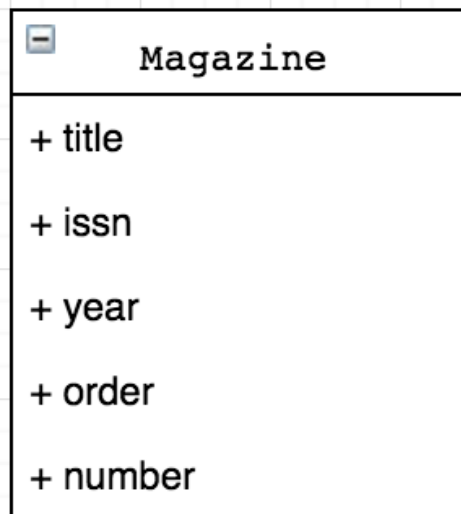
The employee database satisfy the 3NF because:

1. Determine *Concepts*

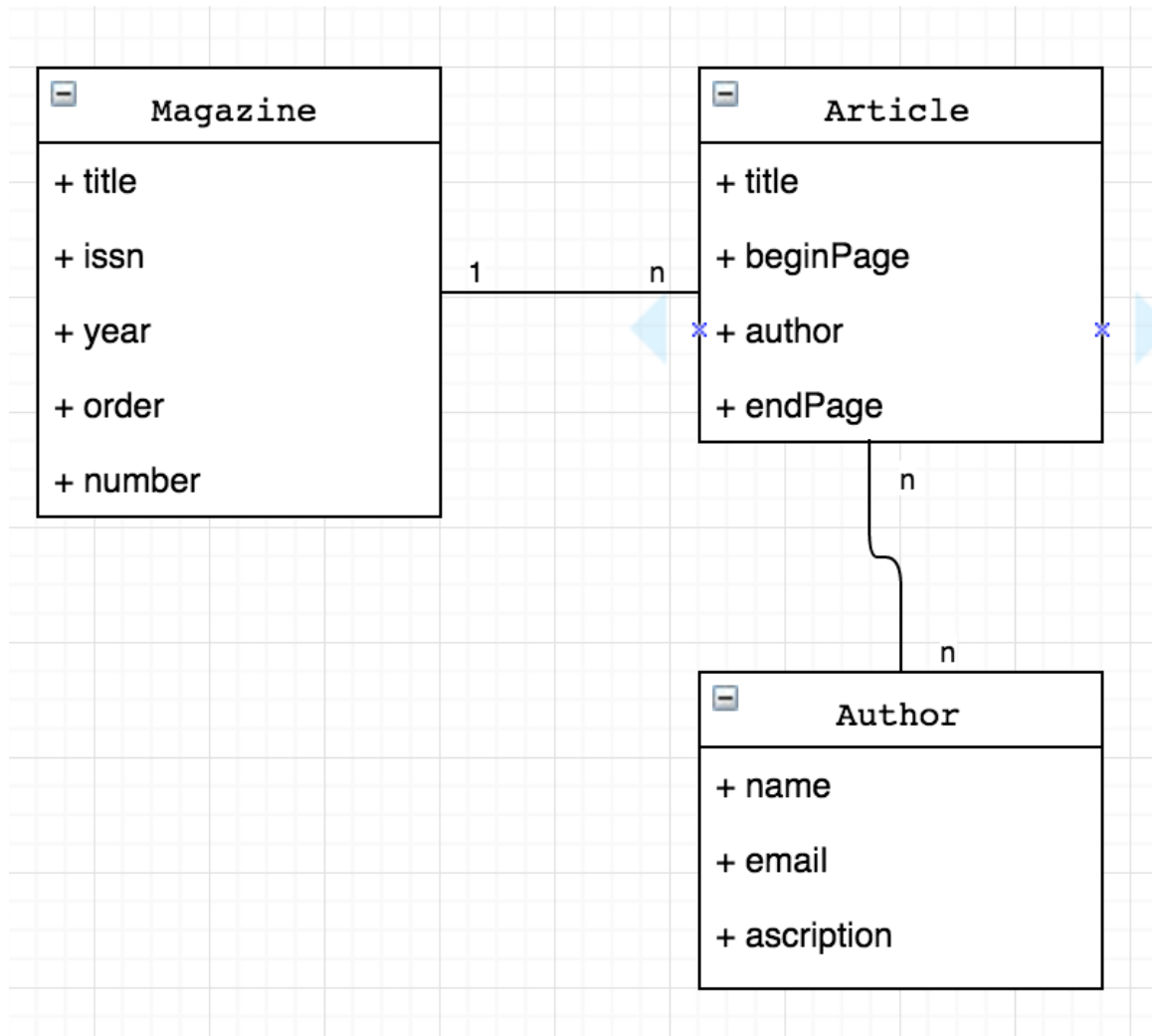
- Magazine
- Article
- Author



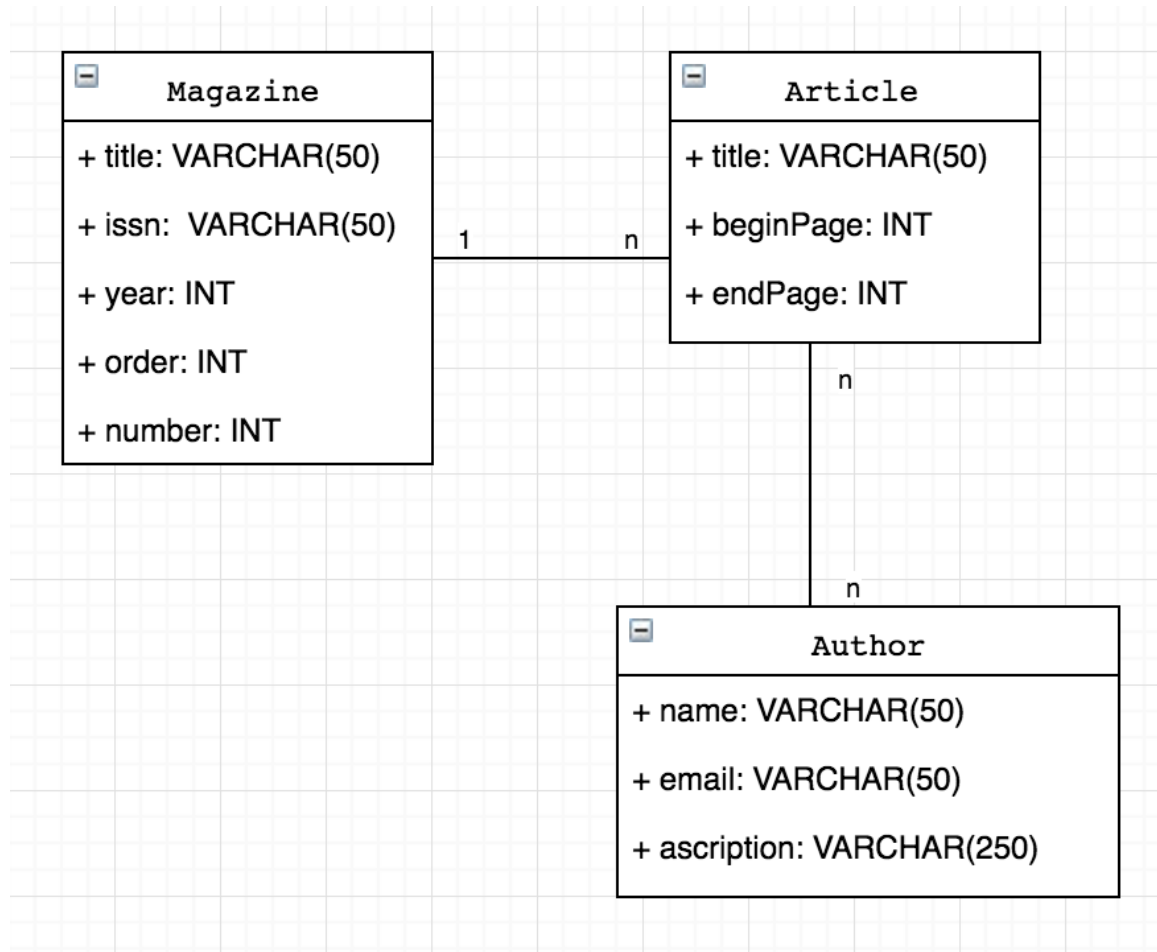
2. Determine Attributes of each concept



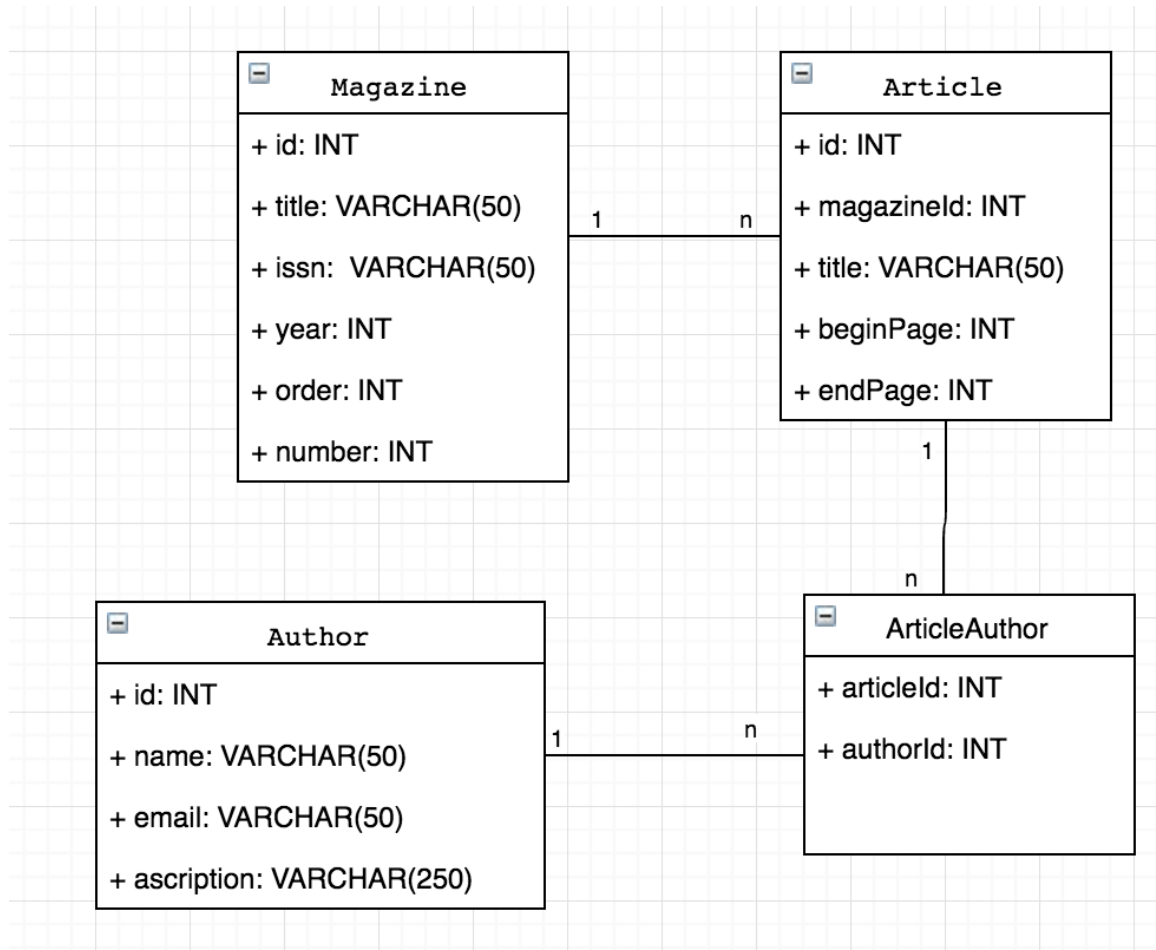
3. Determine links (relationships) between them



4. Determine types of each concept attribute



5. Solve foreign key links



## 6. Implementation

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

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

);

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

```
CREATE TABLE Author (  
    id INT NOT NULL AUTO_INCREMENT,  
    name VARCHAR(50),  
    email VARCHAR(50),  
    ascription VARCHAR(250),  
    PRIMARY KEY (id)  
);
```

```
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)  
);
```