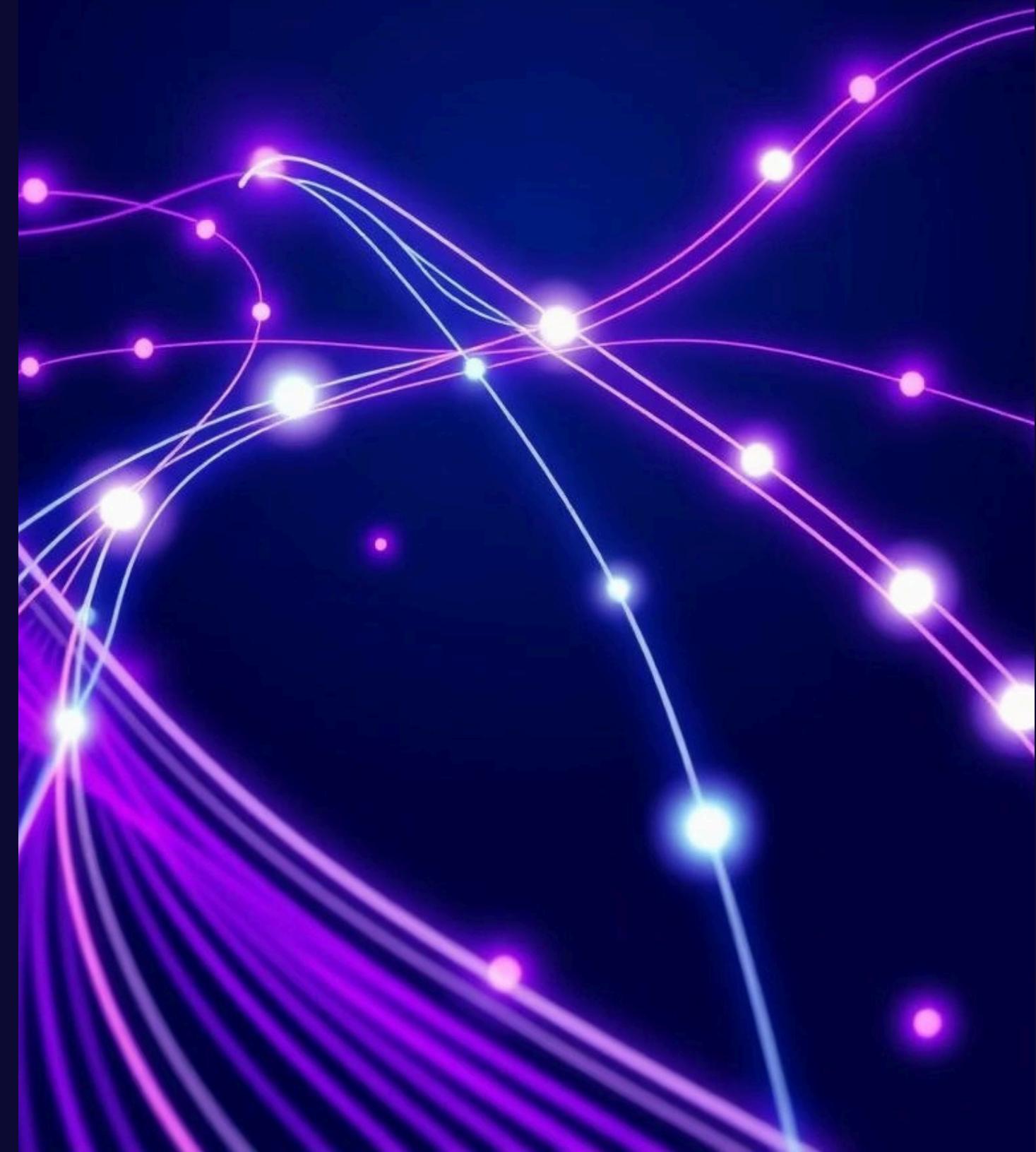
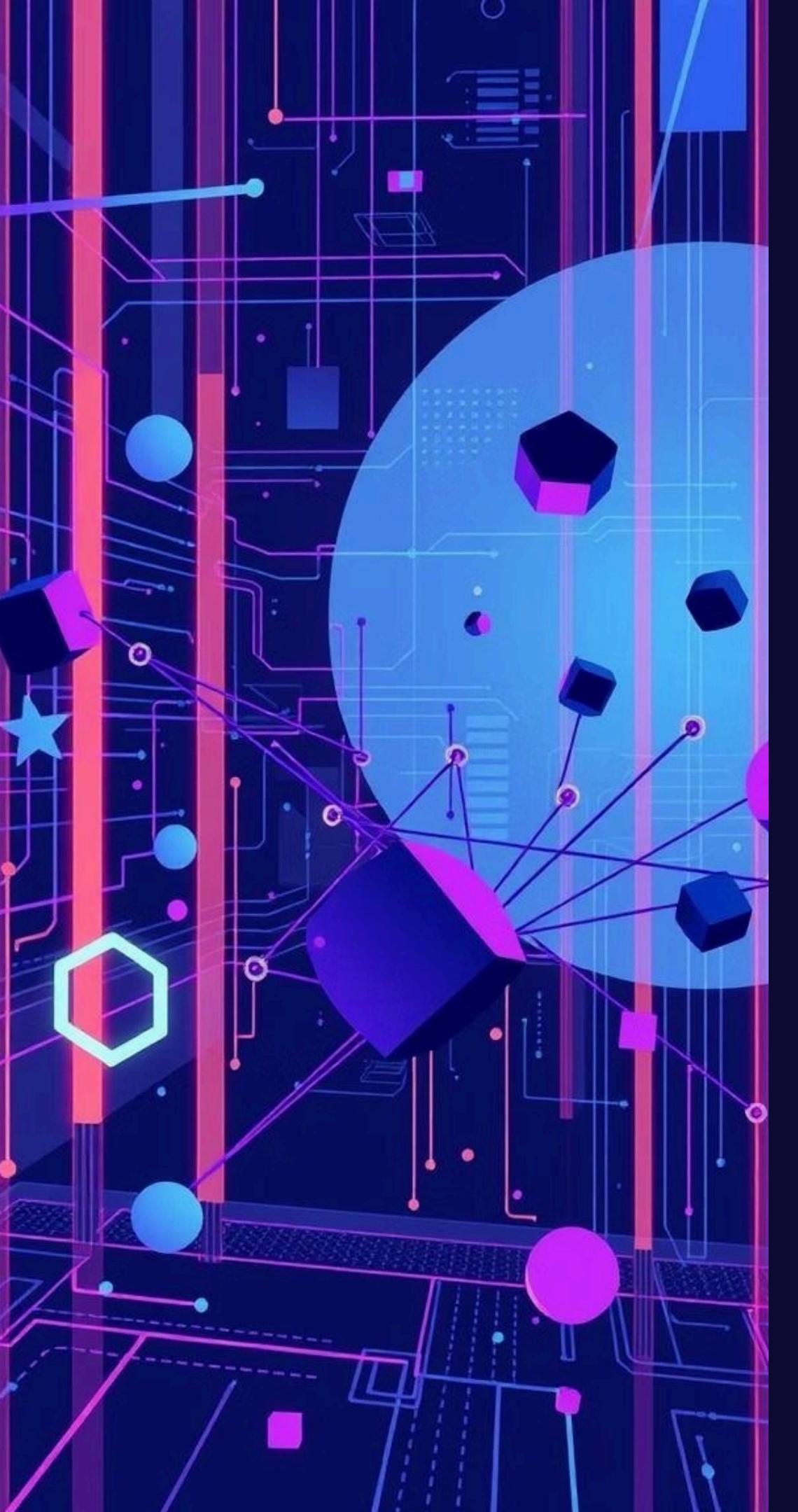


# Conception d'une base de données pour un blog

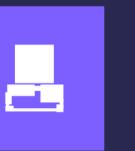
Online BlogDatabase

Created by: Mounir Maimouni





# System Entity Identification



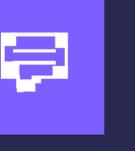
User



Article



Category



Comment

# Attributes for Each Entity

## User

- id\_user
- name
- email

## Article

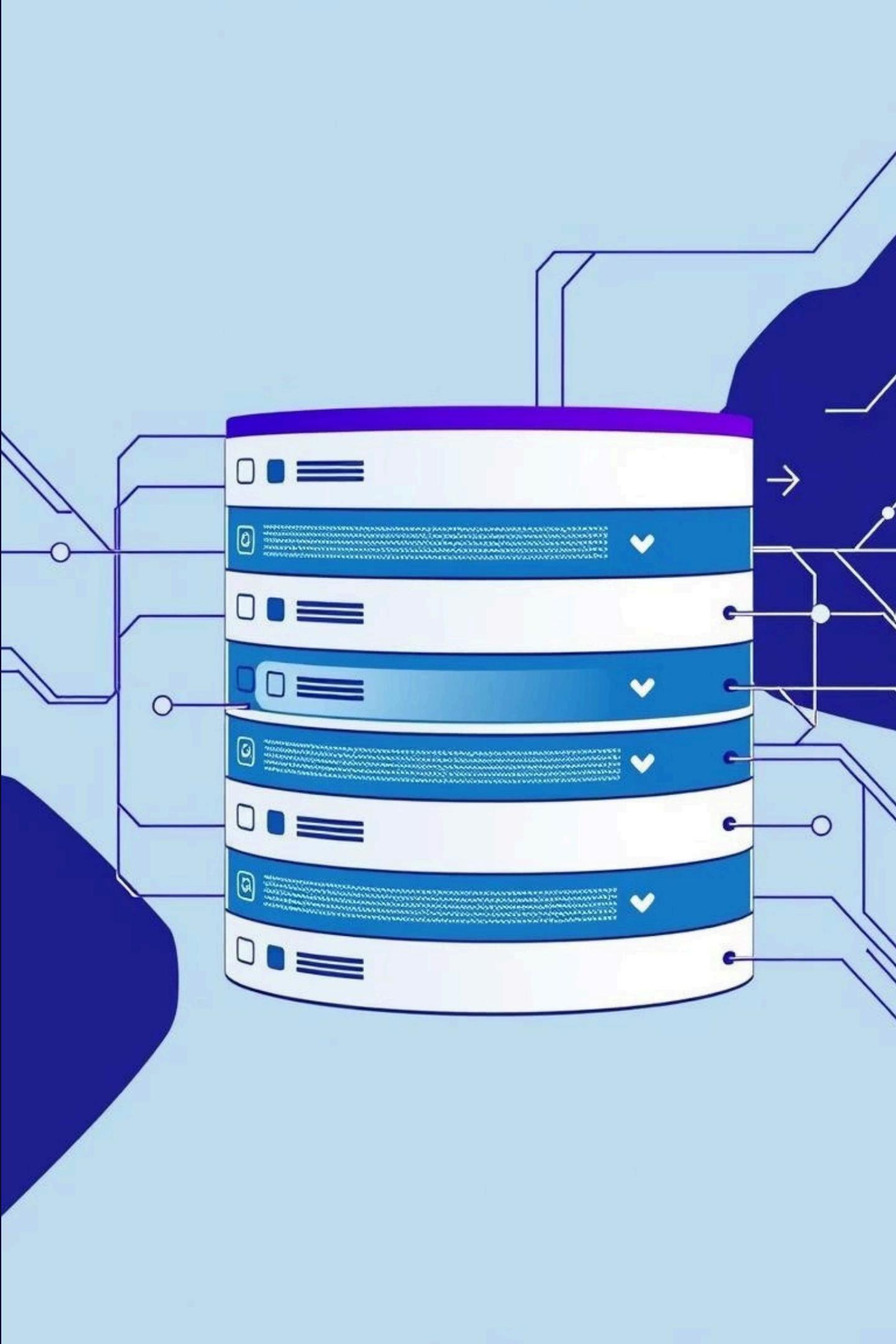
- id\_article
- title
- content
- publication\_date
- status

## Category

- id\_category
- category\_name

## Comment

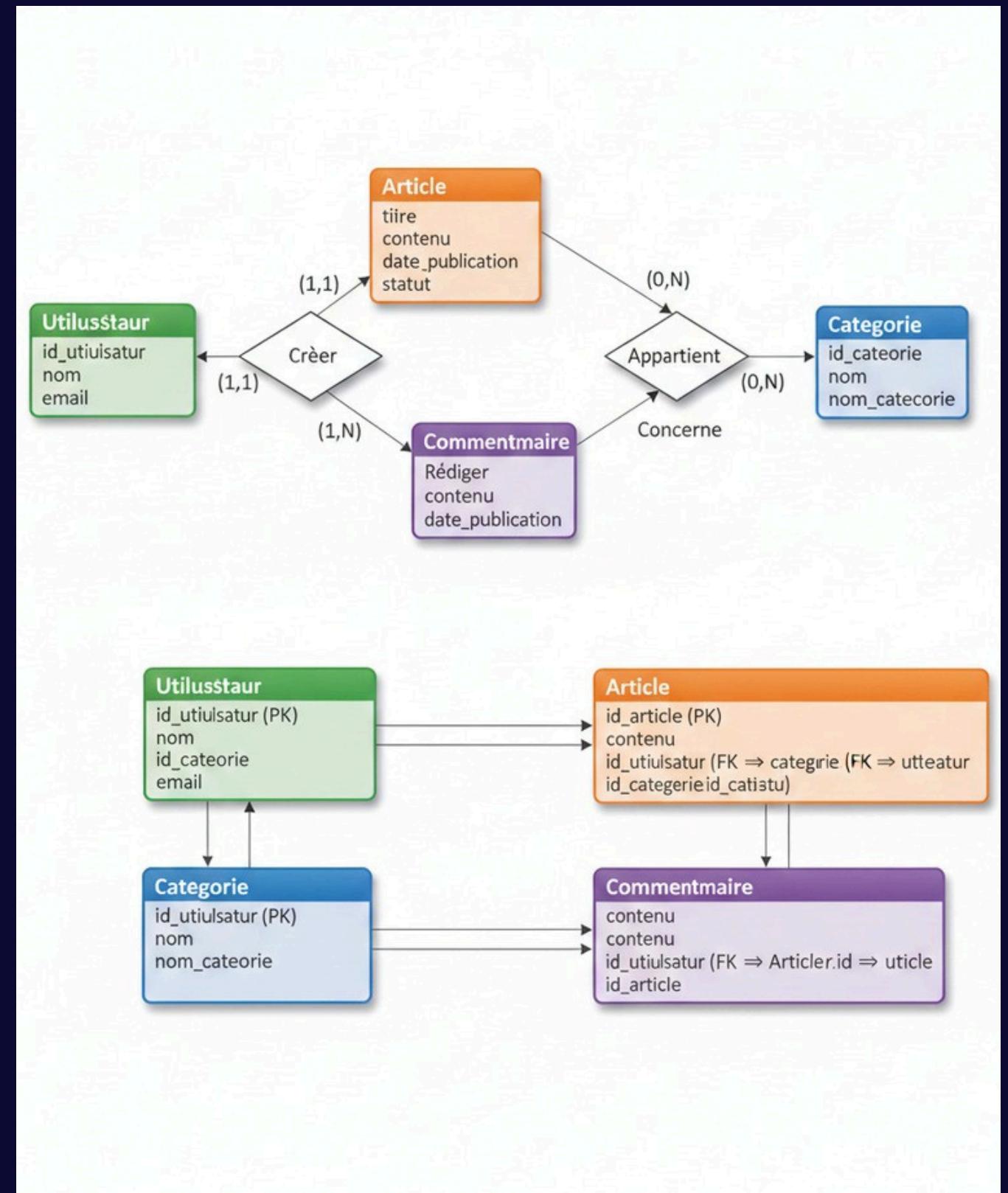
- id\_comment
- content
- publication\_date



# Entity Relationships and Cardinalities

- A user can create one or more articles (1,N)
  
- An article is written by a single user (1,1)
  
- An article belongs to a single category (1,1)
  
- A category can contain several articles (0,N)
  
- A user can write several comments (0,N)
  
- A comment is written by a single user (1,1)
  
- An article can receive several comments (0,N)
  
- A comment concerns a single article (1,1)

# Blog MCD and MLD



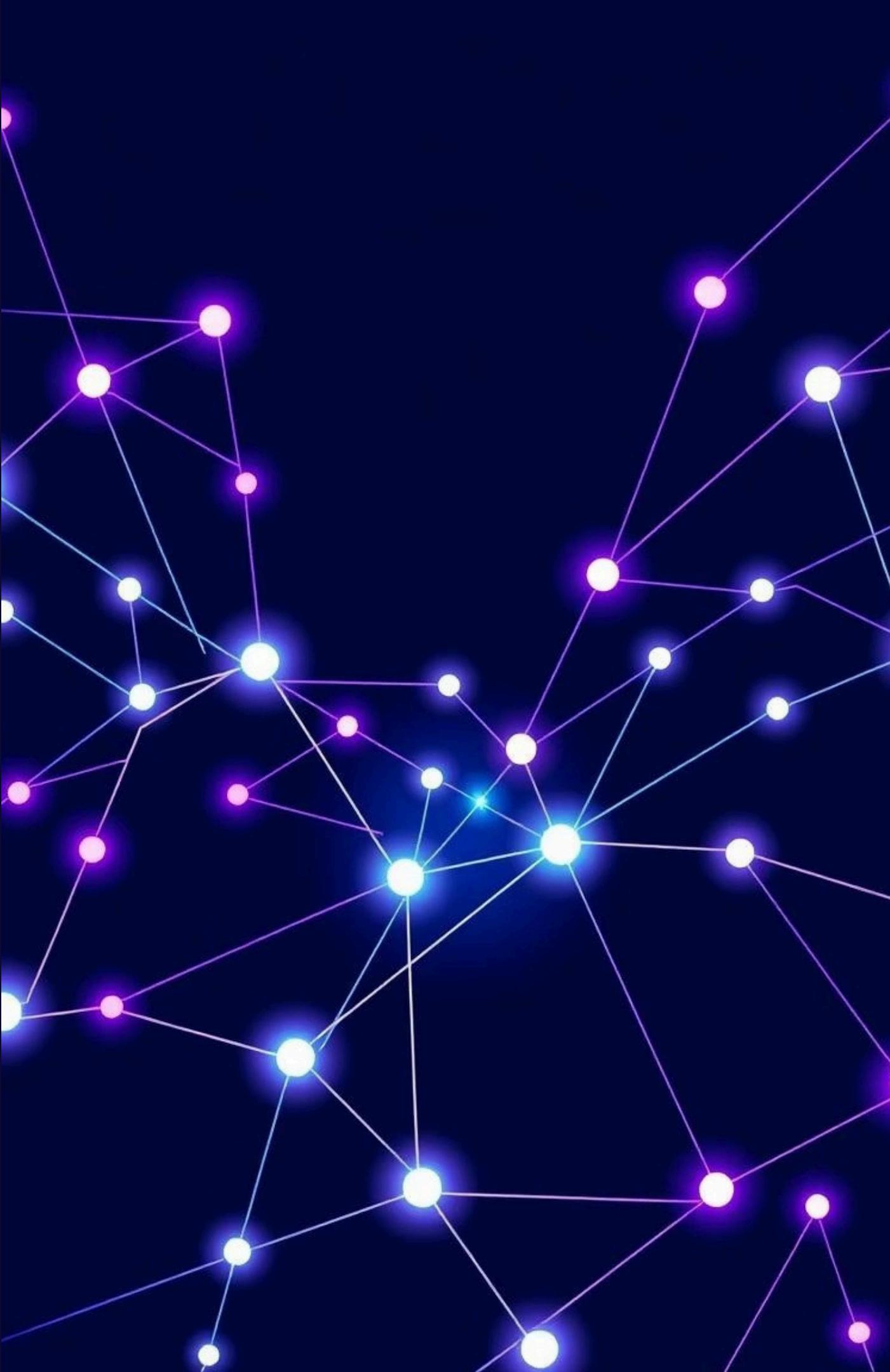
# SQL Database Creation Script

```
-- Table: Users
CREATE TABLE Users (
    id_user INT PRIMARY KEY AUTO_INCREMENT,
    name VARCHAR(255) NOT NULL,
    email VARCHAR(255) UNIQUE NOT NULL
);

-- Table: Categories
CREATE TABLE Categories (
    id_category INT PRIMARY KEY AUTO_INCREMENT,
    category_name VARCHAR(255) UNIQUE NOT NULL
);

-- Table: Articles
CREATE TABLE Articles (
    id_article INT PRIMARY KEY AUTO_INCREMENT,
    title VARCHAR(255) NOT NULL,
    content TEXT NOT NULL,
    publication_date DATETIME DEFAULT CURRENT_TIMESTAMP,
    status ENUM('published', 'draft') DEFAULT 'draft',
    id_user INT NOT NULL,
    id_category INT NOT NULL,
    FOREIGN KEY (id_user) REFERENCES Users(id_user),
    FOREIGN KEY (id_category) REFERENCES Categories(id_category)
);

-- Table: Comments
CREATE TABLE Comments (
    id_comment INT PRIMARY KEY AUTO_INCREMENT,
    content TEXT NOT NULL,
    publication_date DATETIME DEFAULT CURRENT_TIMESTAMP,
    id_user INT NOT NULL,
    id_article INT NOT NULL,
    FOREIGN KEY (id_user) REFERENCES Users(id_user),
    FOREIGN KEY (id_article) REFERENCES Articles(id_article)
);
```



Thank You