## *Задание 3:*

# 1. Create the following tables

table **Article** with columns
        content:long string,    url:string,        created_on:date,
table **Category** with columns
        created_by:string,      date_created_on:date,
table **User** with columns
        password:varchar,       name:varchar, age:integer,
table **Tag** with columns
         name:varchar, second_priority:float,
table **Blog** with columns
        name:varchar
        url:varchar

*As a result SQL queries must be created*

# 2. Connect the tables in the following way

**User** has a many to many connection to **Article**

**Article** has a many to one connection to **Category**

**Category** has a many to one connection to **Tag**

**Blog** has many **User,** many **Article**, many **Categories,** many **Tag**

*As a result SQL queries must be created*

# 3. Insert

Add at least two records in each table

*As a result SQL queries must be created*

# 4. Answer the following question

- – How many users are there in the system?
- – What is the average age of the user?
- – Which are the **Category(s)** for a given User?
- – Which are the **Category**(s) for which a **User** has not created an article?
- – How many **Tags** has a **User** created **Articles** for?
- – Which are the Category(s) with more than two **Tags**?

- Which are the **User(s)** in a given **Blog**
- Which are the **Articles(s)** in a given **Blog**
- Which are the **Blog(s)** that have more than 3 Users(s)

*As a result SQL query must be created*

## 5. Export the Data Base to SQL or CSV

## 6. Execute the following migration

Merge table **Article** and table **Category** in one table called **Article_Category**
*As a result SQL queries+code in other programming language must be create*

## 7. Export the Data Base to SQL or CSV

## 8. Answer the following question

Which are the **Tag**(s) for a given **Article**

*As a result SQL query must be created*