

CS 4721 (Database Design I)

Assignment – Build a DB [Spring 2019]

Objective: Use MySQL Workbench + SQL to create and populate a database for a given set of data.

[This assignment is a pair-work work, that is it must be done in a team of 2 students. Both names must be indicated, however, only one submission from a pair is required.]

You are provided with a .zip file (**databasebasketball2.0.zip**) containing several text files with NBA/ABA data. The .zip archive also has a README file that describes/explains the text file contents (data).

Extract the files and carefully go through the contents. Also read the **readme.txt** file for explanation of the data.

Your task is to convert the text data into database relations (tables). Note, you are not allowed to change anything in the data text files.

The following steps should be performed using SQL & MySQL Workbench. Since this work is supposed to be done in pairs, in the following description the two students' first names will be referred to as **studentA** and **studentB**. Anywhere these two appear, you should replace *studentA* and *studentB* with yours and your team member's first names.

0. Create an .sql file named **nba_build_studentA_studentB.sql**

1. Include an SQL comment line to specify the data source (check *readme.txt* for the data usage condition.)

2. Write SQL statement to create a schema with the name **nba_studentA_studentB**.

3. Write SQL statements to create the tables based on the text files. For simplicity, you can consider that data in each text file is stored in a separate table.

4. Populate the data using “data import tools” of MySQL Workbench. (*Note, you may need to import the data from text file to MS-Excel and store them in .csv spreadsheets before importing to database.*)

Note: At the time of creation of relations (tables):

- When you create each table, you need to explicitly define the primary key constraint for that table. Impose the NOT NULL constraint to each attribute of the primary key of each table.
- Ignore specifying “foreign keys” for the tables.

Submission: Submit your .sql file through BlazeVIEW submission box assigned to this activity. I should be able to recreate your database by running the SQL commands on your .sql file. I'll follow the standard data import tool of Workbench to populate the tables in your database.

Caution: Please follow the naming rule exactly as it is described above. If you didn't follow the naming convention, your submission will not be considered.