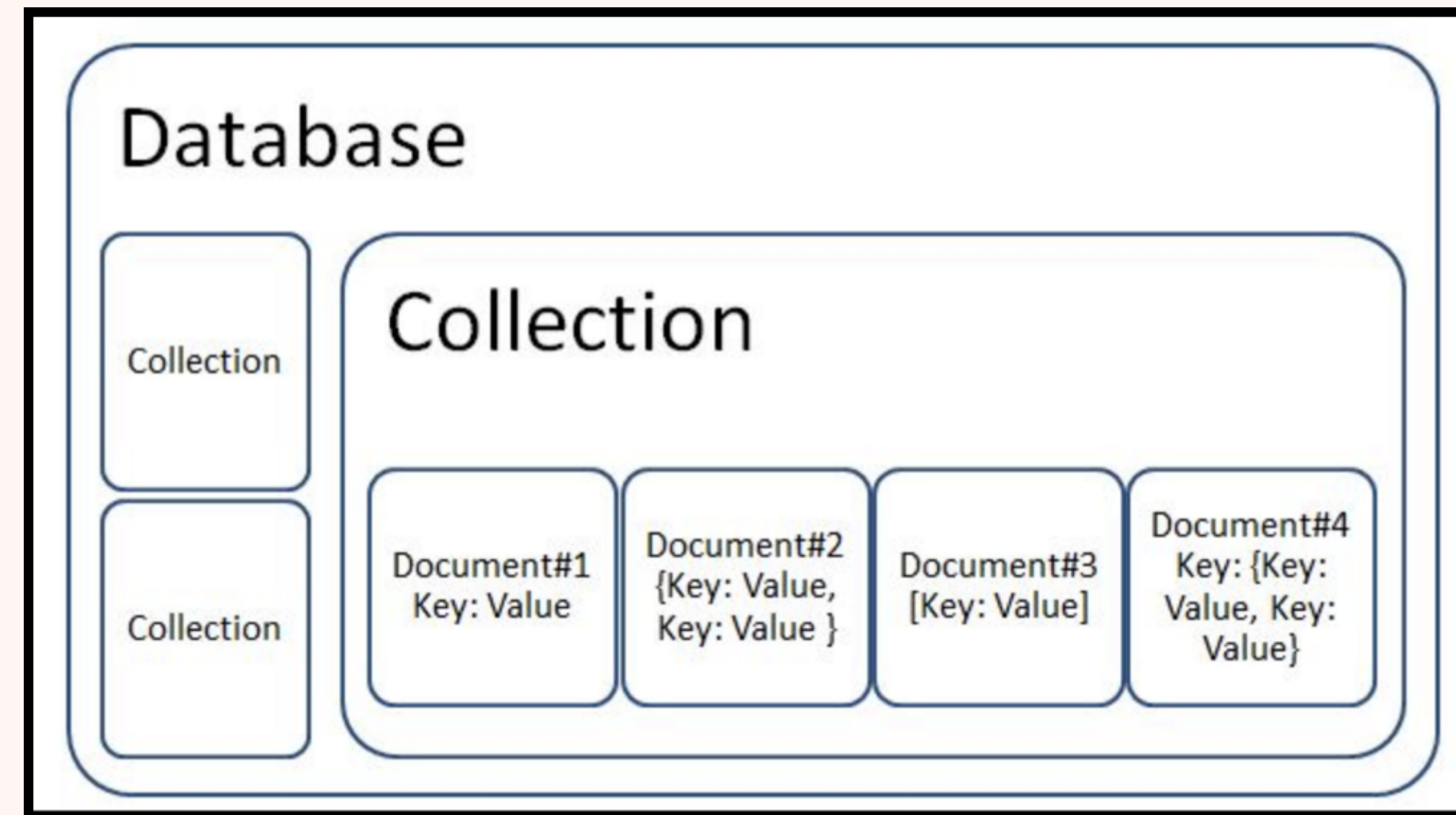NoSql - MongoDB

DATA MANAGEMENT FOR DATA SCIENCE - 2019/2020

DATA BASE - BASKETBALL.MEN

> DESCRIPTION: Database that represent data of the world of basketball in USA. Data are updated up to 2011.

> NoSql tool : Document-oriented database

> System used: MongoDB

> Client used to create db and run queries: Jupyter Notebook
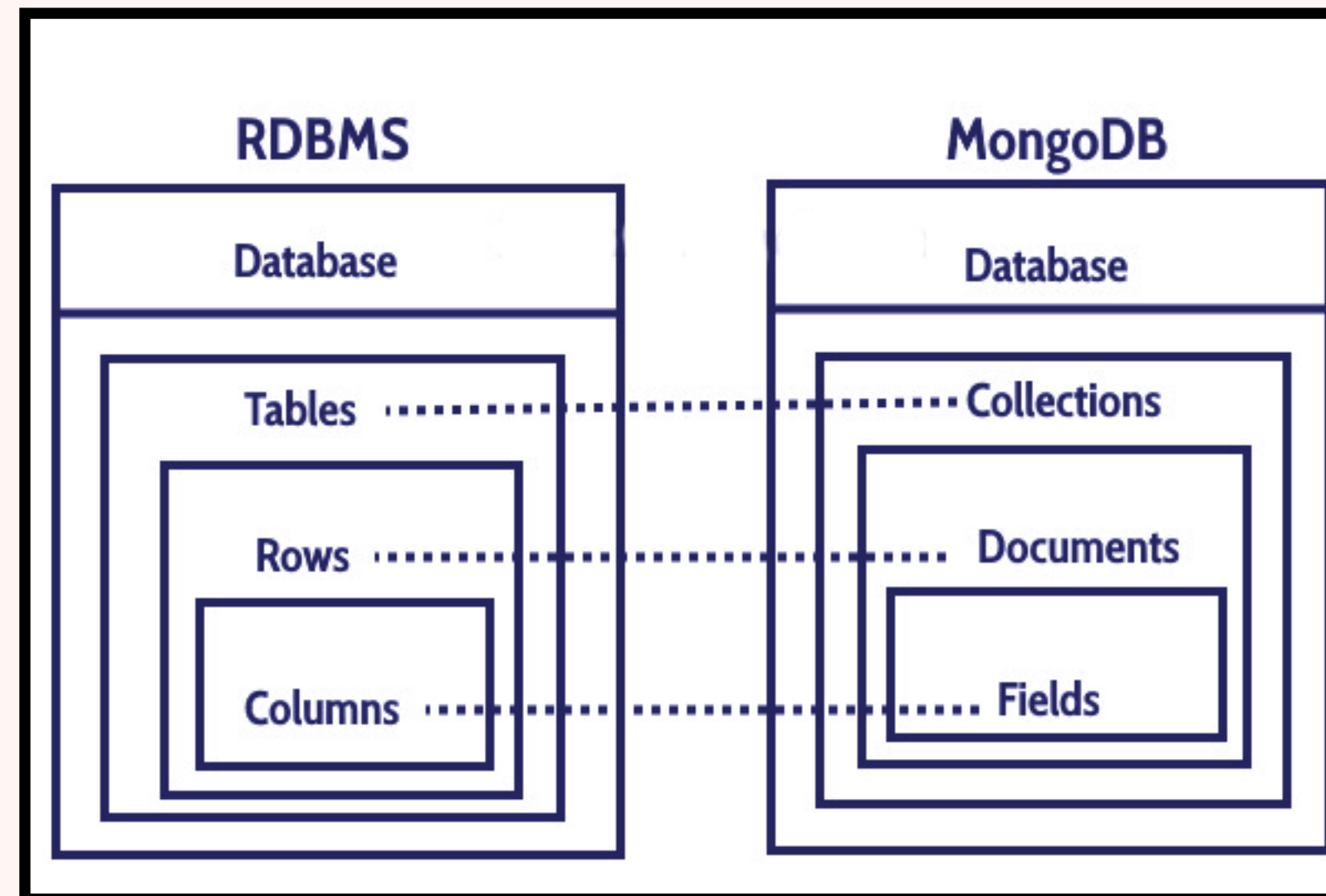
> 6 collections

> 10 Queries

NOSQL QUERIES

> **1 - HighSchool name and count of players gives by each highSchool**

> **2 - Name, lastname, id and total points scored by the best 10 players (who scored most)**

> **3 - The number of choaches awards for the top ten team in descresent order**

> **4 - Firstname, lastName, height, weight, birthcountry of players born not in USA that played ONLY in 1 team in career(in the USA leagues).**

> **5 - Top 10 players who scored the most but never played in all star match**

> **6 - the player who won the most awards for each category of available awards, in case of draw between players, select the younger one.**

> **7 - Top player for different ranking (games played, minutes played, best scorer, best assistman, best carcher, best stealer, best blocker, best free throws, best sniper from 2, best sniper from 3)**

> **8 - For every decade (80s, 90s,00s), we show top 3 players about their avg points**

> **9 - Michael Jordan's team mate**

> **10 - Top 10 players that won more MVP awards. For every player we show numebr of total MVP awards taht he won. We show also with which team he won them and number of MVP for every team.**

PROS VS CONS - MONGODB

Why is better MongoDB?

> High Speed

> Scalability

> Flexibility

RDBMS	MongoDB
Database	Database
Tables	Collections
Rows	Documents
Columns	Fields

Why is not very good?

> Joins

> High Memory Usage

> Limited data size