

# Data Modeling and Databases: Homework 1

Sokolov Maxim  
email: [somal1996@rambler.ru](mailto:somal1996@rambler.ru)

Innopolis University

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## 1 My bio

I was born in N. Novgorod, Russia in 1996. It's very big and ancient city. It was created in 1221 by Yuri Dolgoruky as fortress on the East edge of Rus. This fortress was named Kremlin like in Moscow and it's in sight in my city, because it remains in good condition till nowadays. Every time N. Novgorod was the center of trade. Since 17th century the city became also the industry center. And since 19th century N. Novgorod became the science center. All of these provided the great potential for appropriate education system development in N. Novgorod.

One of the best schools in Russia is lyceum 165 named the 65th anniversary of GAZ in N. Novgorod. It is listed in the top 100 best Russian schools. I finished it in 2014. I was in physical and mathematical profile class. My favorite courses were physics, IT, algebra and geometry. At my free time, I learned robotics, sport programming and applied programming.

After school I entered into Lobachevsky State University, N. Novgorod at Radiophysics Department with Fundamental Informatics and IT specialization. I learned different maths disciplines (discrete math, calculus etc), physics and basics of programming. It was quite boring because most of these courses were learned at school by me. For development I learned robotics, IoT and different hardware in the university physics laboratory. This year I finished my 1st university education year and entered to Innopolis University.

And I will see that will happen next...

## 2 Databases categorization

Now most computing system use databases. And knowledge of databases categories is very useful. The categorization by degree of distribution includes:

- **Centralized databases**  
It's a DB which stored in one computer.

- **Distributed databases**

It's a DB, which components are located in different nodes of computer network. This is divided on several parts:

- **Heterogeneous distributed database**  
Different parts of DB are supported by more 1 DBMS
- **Homogeneous distributed database**  
Different parts of DB are supported by only one DBMS

## References

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