

# **Database Systems Overview**

## **1.What database models do you know?**

Perform a research (e.g. in Google or Wikipedia) and provide an information about different type of database models. Provide detailed information about one of the database models by your choice different than relational model.

## **2.Which are the main functions performed by a RDBMS?**

Perform a research (e.g. Google or Wikipedia) and provide an information about relational database management systems and which are their main functions

## **3.Define what is “table” in database terms.**

Perform a research (e.g. Google or Wikipedia) and provide an information about database table. What is table? How information is stored in tables? What is the difference between tables and relations?

## **4.Explain the difference between a primary and foreign key.**

Perform a research (e.g. Google or Wikipedia) and provide an information about primary and foreign keys. What is the primary key? Why do we need it? What is the foreign key? What is the purpose of foreign keys? What is the difference between a primary and foreign key?

## **5.Explain the different kinds of relationships between tables in relational databases.**

Perform a research (e.g. Google or Wikipedia) and provide an information about table relationships in relational databases. Provide more information about every relationship.

## **6.What’s the main purpose of the SQL language?**

Perform a research (e.g. Google or Wikipedia) and provide an information about SQL language. What type of language is SQL? What is used for? Provide an example with simple SQL query.

## **7.What is a NoSQL database?**

Perform a research (e.g. Google or Wikipedia) and provide an information about non-relational databases? Give a few examples of NoSQL databases.

