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DATABASE SYSTEM

Lecture 1

INTRODUCTION TO ICT

Lecture 2

INTRODUCTION TO COMPUTER SYSTEMS

Lecture 3

SOFTWARE

Lecture 4

USABILITY OF INTERFACES

Lecture 5

DATABASE SYSTEM

DATABASE SYSTEM

DBMS

Types of DBMS

SQL

DATA

- facts that related **to any object** inconsideration:
Name, Age, Height etc.,
or **to you**: image, file, pictures etc.

DATABASE

- systematic collection of DATA

DBMS

Database Management System – collection of programs which enables:

- to access databases;
- to manipulate and control data etc.

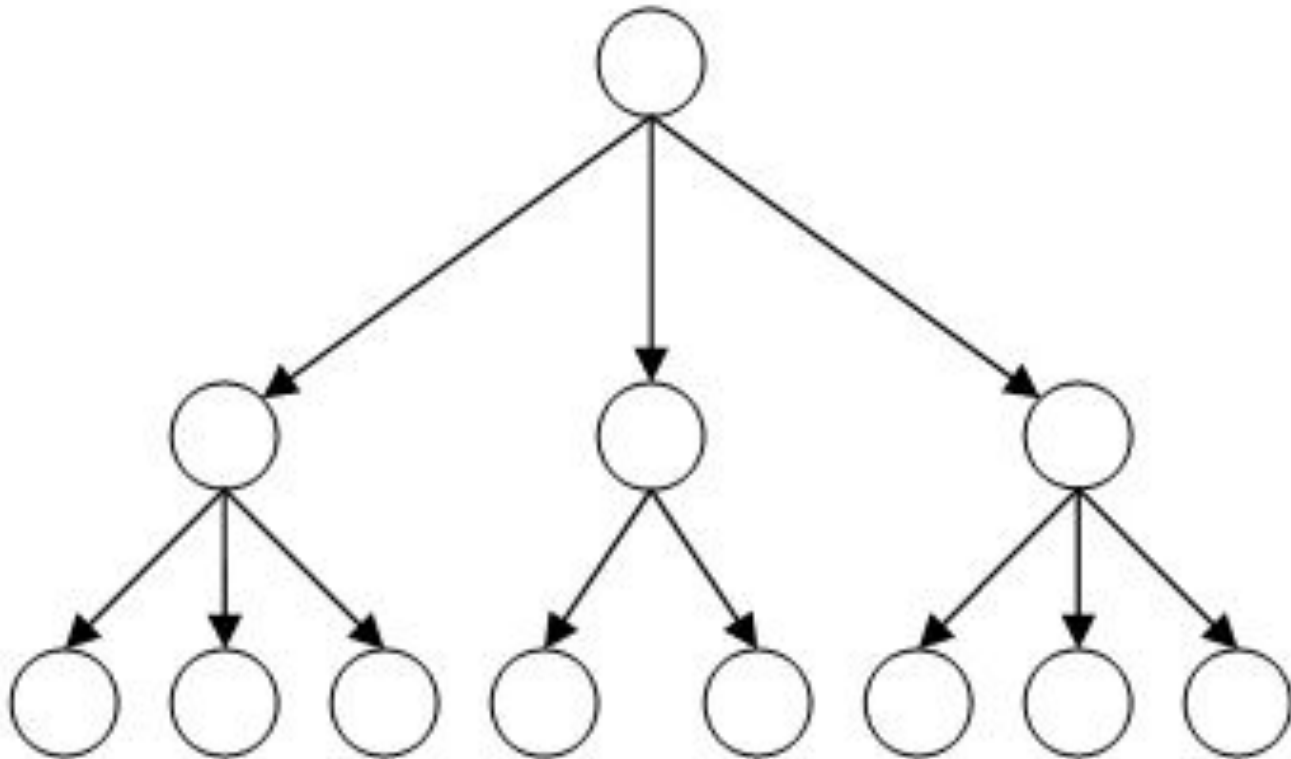
Functions of the DBMS

- search for information in the database
- perform simple calculations
- printing reports
- database editing

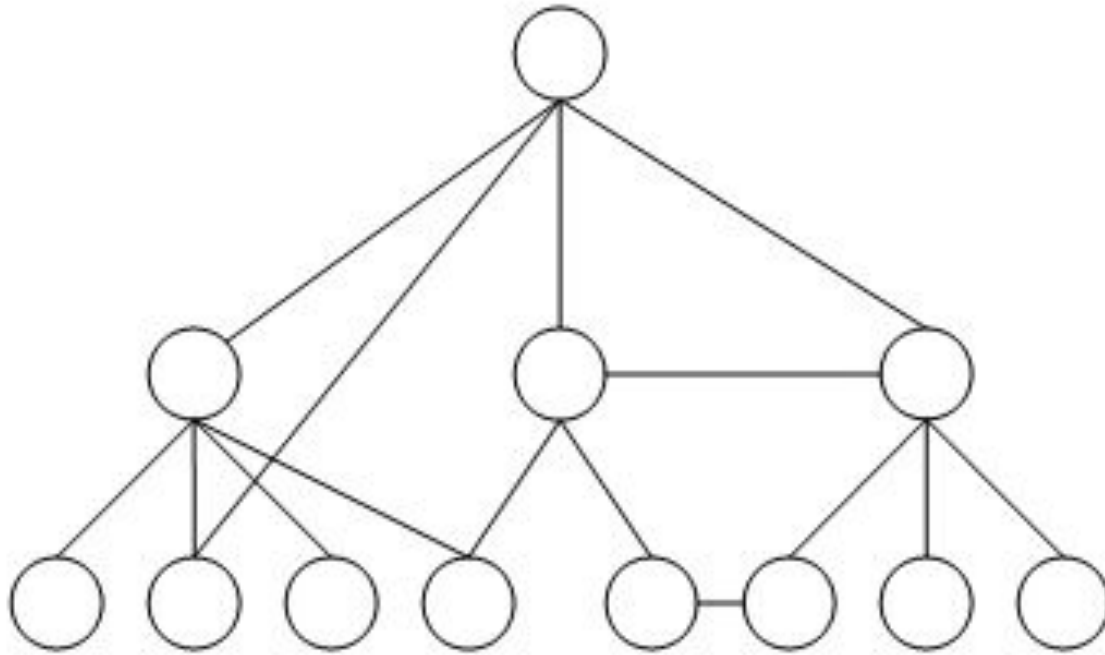
Types of Databases

- Hierarchical
- Network
- Relational
- Object oriented

Hierarchical Model

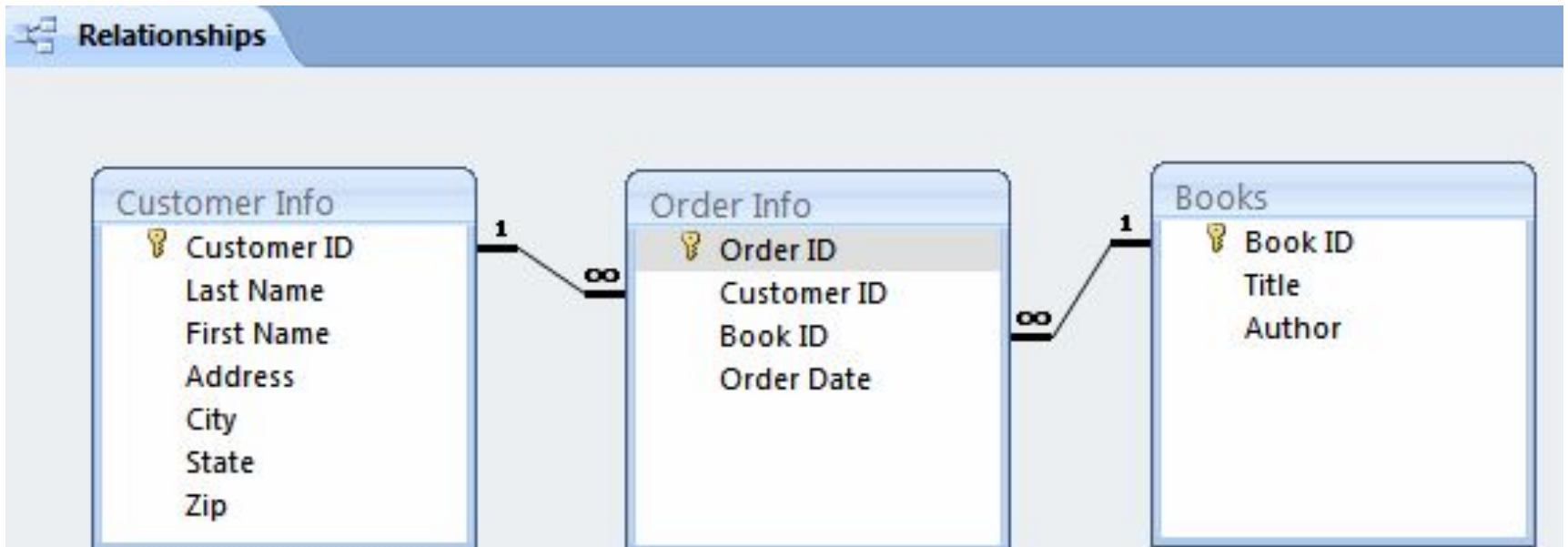


The Network Model



The Relational Model

A relational database - a set of simple tables, between which connections (relations) with the numeric codes.



SQL



Web



Mobile



Enterprise



Data mart



Relational table storage



Relationships use joins

What is SQL?

- **Structured Query Language** (SQL) is a standardized language used to manipulate database objects and the data they contain
- used for: **insert, search, update, delete database records.**
- SQL being a nonprocedural **is not a general-purpose programming language.**

**Many thanks for
your attention!**

