Notes lecture 1

**Data description model** = set of **concepts and rules** used to model data

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1. The Relational Model

* the schema of a relation:
  + the relation's name
  + for each field (column): its name and type

e.g.: Movie (mid: string, title: string, director: string, year: integer)

1. The Entity-Relationship Model

A diagram of a relationship

Description automatically generated

**The structures of a database**

A diagram of a diagram

Description automatically generated

**Functions of Database Management Systems**

1. database *definition*
2. data *management*
3. database *administration*
4. *protection* of the database