

### Relational Model

relation two dimensional table arranged in rows & columns

relational database collection of relations

PRIMARY KEY unique identifier of each row

### Database Purposes

• Humans record information • Individual internal memory is limited • External memory extends internal memory

### Components of Database

storage medium: paper / electronic

data structures: labelled spaces

data organization: interface organized for rapid data entry & retrieval

### Organizational Database Management

• Like people needs to remember a lot of things

• Information usually scattered around org like puzzles

• Deciding where and how to store data requires trade-off

• Uses a variety of IS

• Components: people, text, multimedia, model, knowledge

### Foreign Key

• Purpose: enforce referential integrity  
• For every value of foreign key, there is a primary key with that value  
-> Primary key must exist before foreign key can be defined  
• Primary and Foreign Key can be the same or different

### VIEW

• don't require extra storage

• subset the data contained in a table

• join and simplify tables in a single virtual table

• act as aggregate tables, where aggregated data (sum, average etc.) are calculated and presented as part of data

• hide the complexity of database

• provide extra security from unauthorized users and illegal access

• 1+ source tables make up a VIEW • read-only

• is a virtual dynamic computed from data in the database

• is NOT a part of the relational schema



By [mochimeomeo](#)

[cheatography.com/mochimeomeo/](https://cheatography.com/mochimeomeo/)

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