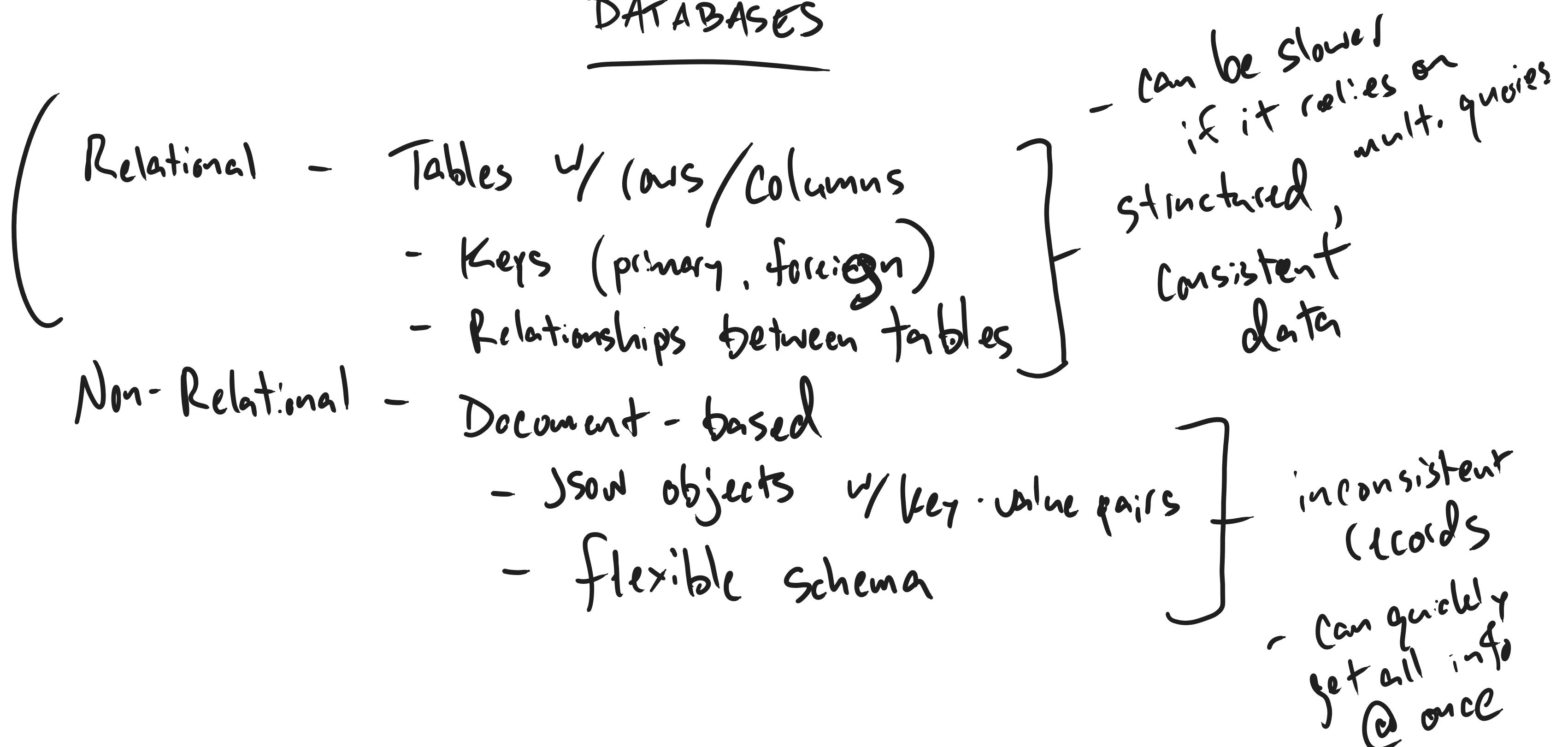


## DATABASES



## NORMALIZATION (Normal forms)

- breaking data out into multiple tables
  - removes unnecessary info from queries
  - removing redundant data
    - one spot for any given data - storage!!
  - consistency of output
  - less room for error, etc.

## NORMAL FORMS

1NF - No groups of values in one field, primary key

2NF - No partial dependencies - dependent on part only of PK

3NF - No transitive dep's - dependent on non-PK column

## KEY TYPES IN SQL

PRIMARY - unique ID for a row in a table

FOREIGN - the PK of another table in our table to refer to a record

NATURAL - some piece of data already there that can serve as a PK

SURROGATE - an artificial key used as a PK

CANDIDATE - some data that could be a PK

UNIQUE - anything that's unique per record // if set as UNIQUE, no dups allowed

COMPOSITE - a PK using 2 or more columns