

# History of DBMS (1)

- Ancient time: data management on papers and other media to support business transactions
- 1960s, navigational DBMS
  - IBM IMS based on hierarchical data model: developed for the Apollo program
- 1970s, relational DBMS
  - Relational model by E.F. Codd in 1970
  - First relational DBMS
    - ▶ IBM System R - Implement SQL (1974)
    - ▶ UC Berkeley Ingres - Developed by Michael Stonebraker (1974)
  - First Commercial Relational DBMS
    - ▶ Oracle Database in 1978