Single

Two : client server architecture

Three : client application db server

N-Tier : cache layer, and so on

Google cloud

Azure

cloud based:

conceptual modelling:

- high level representation of system
- acts as a blueprint for db design
- focuses on what data is stored rather than how it is stored.

Key constraints

Participation constraints — total, partial

Cardinality constraints

Conceptual model what the data is

logical model how it is stored

Physical model how it is implemented.

ER model:

conceptual framework that is used to design & visualize the structure of database.

1:1 : person passport

1:M : customer places multiple orders.

M:M : student multiple courses

Ternary: A doc prescribes medication to a patient.

→ for very large systems it can become complex & difficult to understand.

→ only for RDBMS not for noSQL.

strong entity

weak entity.

Employee dependent

Surrogate key.