





DEFINITION

# entity relationship diagram


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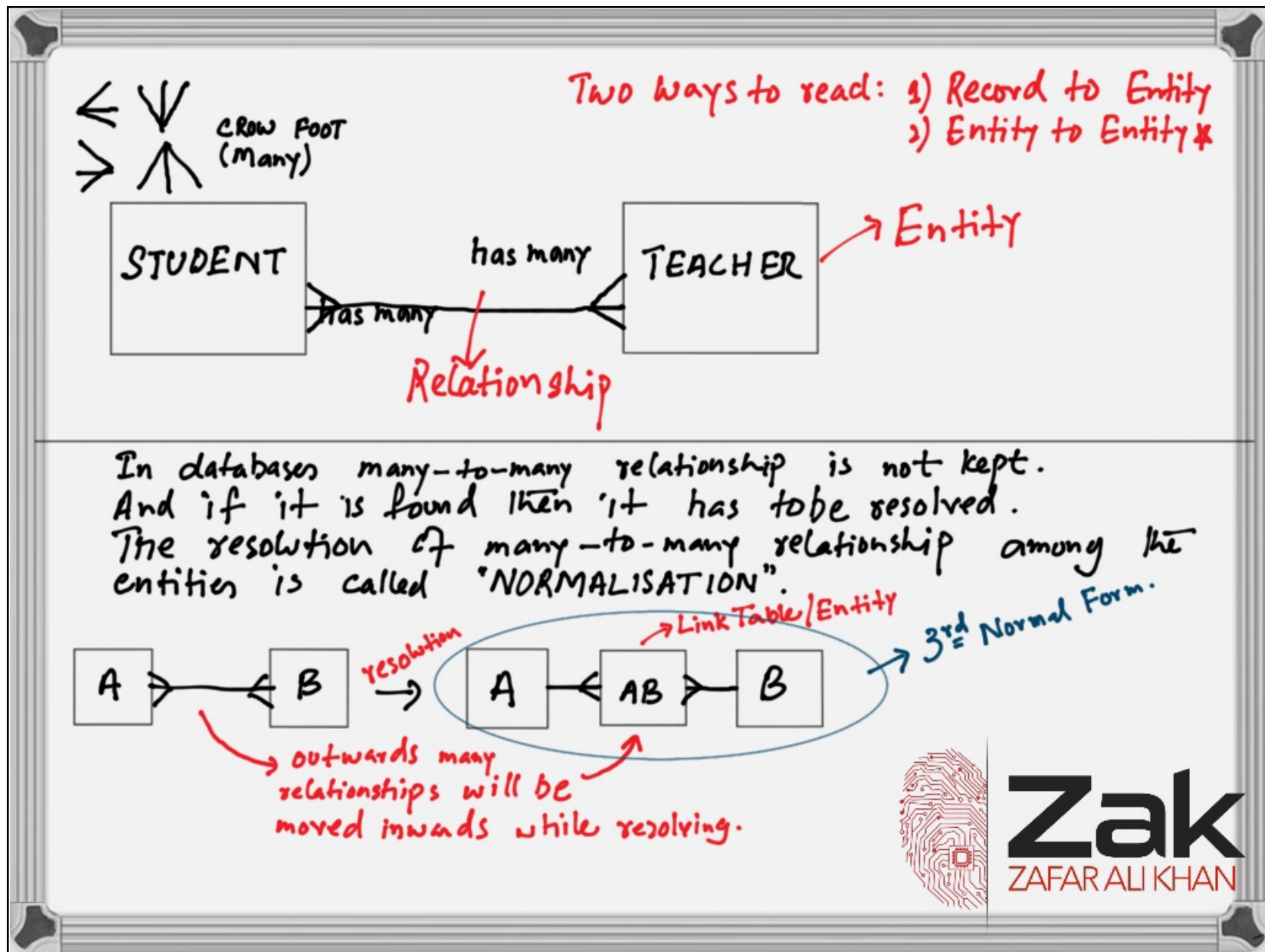
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An entity-relationship diagram (ERD) is a graphical representation of an information system that shows the relationship between people, objects, places, concepts or events within that system. An ERD is a [data modeling](#) technique that can help define business processes and can be used as the foundation for a [relational database](#).



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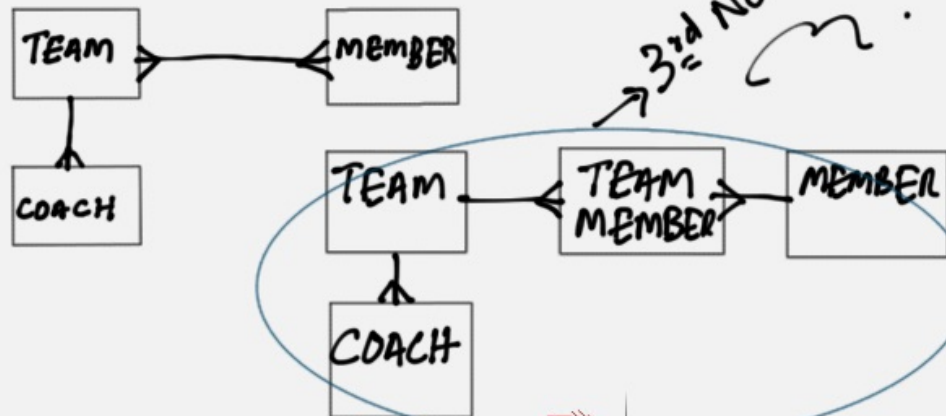
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10. A sports club runs a number of sports teams.

Each team is made up of a number of members of the club and each member may play for more than one team. Each team has a number of coaches, but the coach's job is so time consuming that each coach can only coach one team.

Represent the above information on an entity relation (ER) diagram, in 3rd normal form, stating the primary key for each entity. [13]

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2. A landscape garden company services a number of gardens. Each GARDEN is owned by an OWNER. Each owner may have more than one garden. Each garden has a number of PLANTS in it and each plant may be in a number of gardens.

Draw an entity relationship (E-R) diagram to represent this data model in third normal form and label the relationships.

[10]

```
graph TD
    GARDEN --> OWNER
    GARDEN --> PLANT
    GARDEN --- GAR_PLANT[GAR-PLANT]
    GAR_PLANT --- PLANT
```

The diagram shows three entities: GARDEN, OWNER, and PLANT. GARDEN is connected to OWNER and PLANT. GARDEN and PLANT are connected via a relationship labeled GAR-PLANT.

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