SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING(IoT and Cybersecurity Including BCT)

COURSE NAME : 19SB504 DATABASE MANAGEMENT SYSTEMS

III YEAR / V SEMESTER

Unit III-**E-R Diagram models and NORMAL FORMS**

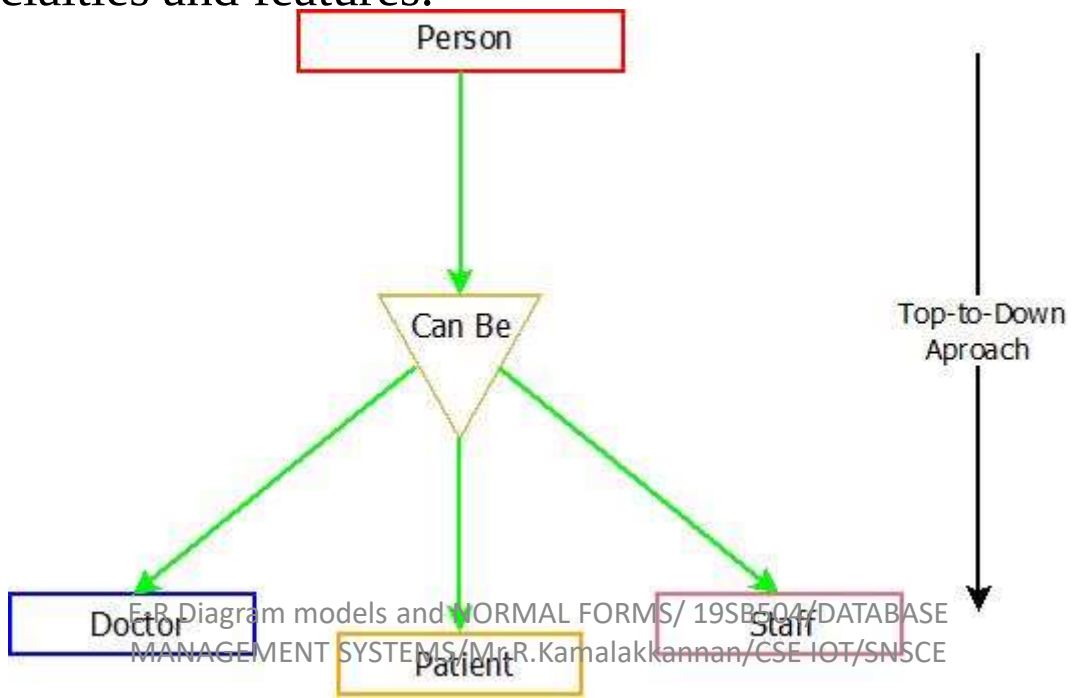
Topic : Extended ER features

Extended ER features

- Specialization and Generalization -
  - The process of making subclass from a general concept – specialization.(top – down process)
  - The process of making superclass from subclass – Generalization. (bottom up process)
  - Superclass: An entity type that represents a general concept at a high level
  - Subclass: An entity type that represents a specific concept at a low levels

Extended ER features

- Specialization:
  - The procedure to split up the entities into further sub entities on the basis of their functionalities, specialties and features.

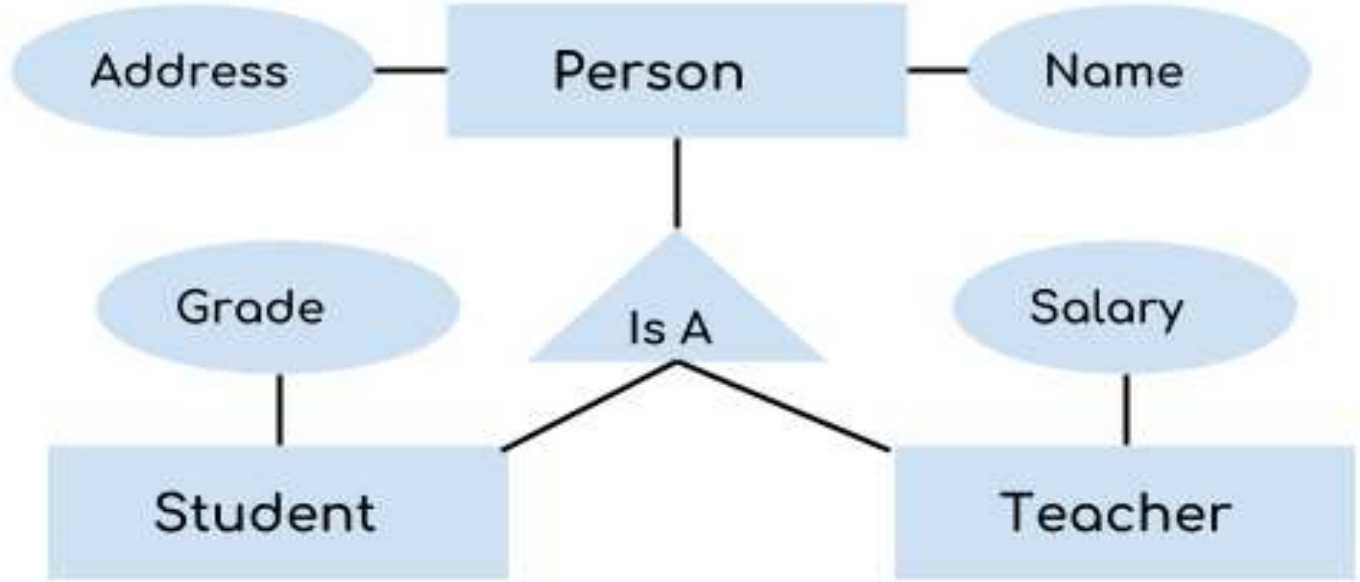


Extended ER features

- **Generalization:**
  - The sub entities are combined together into a super entity set on the basis of some common features in such a way that the new entity thus formed contains all the features of the sub entities.

Extended ER features

- Generalization:



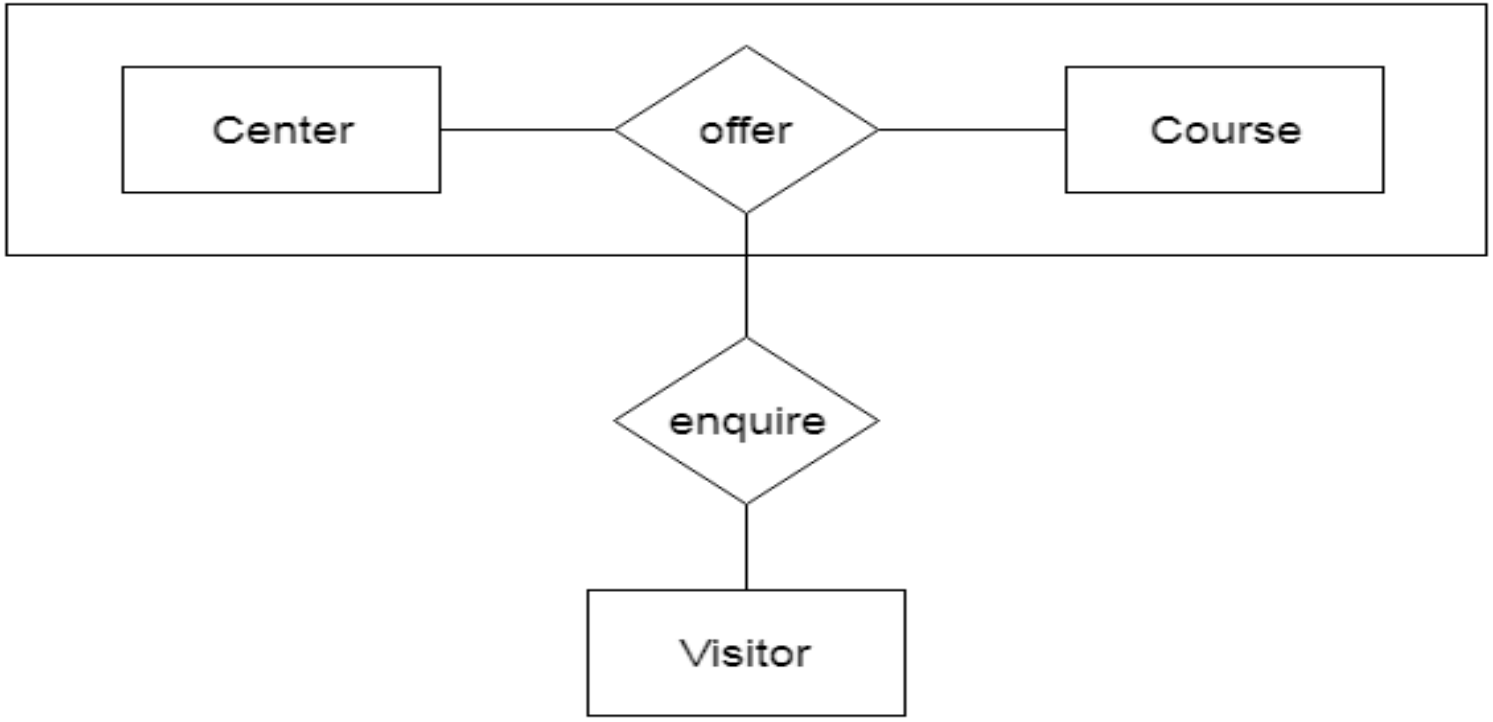
Generalization

Extended ER features

- **Aggregation:**
  - The relation between two entities is treated as a single entity.
  - In aggregation, relationship with its corresponding entities is aggregated into a higher level entity.

Extended ER features

- Aggregation:



Thank You.....