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ER FEATURES

+ Specialisation

Specialisation is splitting up the entity set into further sub entity sets on the basis of their functionalities, specialities and features

-> It is a thop down approach.

-> Inhoristance tackes place in specialisation.

ex:- Consider an entity Account Which will have attributes like Acc-No and balance. Account entity may have some other attributes like Current-Acc and Savings-Acc. Now current-Acc may have Acc-No, Balance and Transactions while Savings-Acc may have Acc-No, Balance and Interest-Rate hence-forth we can say that specialized entities inherits characteristics of higher slevel entity.

- specialisation is depicted by triangle component.

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Need of Specialisation

-> within attributes may only be applicable to a few entities of the parent entity set.

→ DB designers can show the distinctive features of the sub entities.

To group such entities we apply specialisation, to overall sufine the DB bluebrint.

> Creneralisation

- → It is suverse of specialisation

 → In curralization lower level

 functions are combined to form

 righer level function which is

 called as entities.
 - -> It is bottom up approach
 - → Thou is no inhoritant in generalization

ex:- Consider two entities student and patient. These two entities will have some Characteristics of their own. For example student entity will have Roll-no, Name and Mob-No while patient will have Pld, Name and Mob-No

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Characteristics. Now here Name & Mob-No of both student and patient can be combined as a person to form one higher level entity.

Need of Guneralization

- -> Makes DB more suffined and simpler
- -> Common attributes our not subcated.

-> Attribute Inheritance

- Both specialisation and generalisation has attribute inheritanu.
- -> The attributes of higher level entity sets are inherited by lovel devel entity sets.
- -> ex. Customer e Employee inherits the attributes of Person.
- of a parent entity set participates in a relationship other its child entity sets will also participate in that relationship.

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-> Aggrugation

- cook brew si noitapproppe capidationships among substitutionships among substitutions to the total substitution of the solutionships as higher-level entities.
 - → Avoid rudundomy by aggregating relationship as an entity set itself.