strong on they sels + It wontains sufficient attributes to form insprimary key + A pingle rectangle box is used to mik representation -) Asingle line is used for representation of connection of se set 4 the relationship that exists b/w/wo stronge sels (représent kdby a) does not un vains ufficient arributoro tormilo prinary key b) Adouble reclarigle for used for c) Adouble line is used for representation of weak entity set the relation Aup mat exists you strong tweak entity bet bepresented by double diamond) d) Total Parti cipation exists

extended entity relationship Diegram Titis a right level data model that incorporates the extensions to > These we righ level model than represents the requirements t complexities of a complex duta base -> In addition to ER model, the concepts that EER includes a) subclasses Hentiries with wright atributes 4) It Inherits properties 4 aftributes from supordas 6) Duper doss 4 It 1 an ertily that can be divided into turther subtypes. Write 46 class is a corsting eg. State Triangle/ / Red

Speciali sation & generalization -> Generalisation is a process of generalising an eranity which contains generalised affiliated on prop-generalised affiliated entities or prop-enties of generalised entities > Itipa bottom up approach. -) specialisation is a process of identifying subbels of an entity
that shows some distorent Charactry Mic > 1 tip a hopdown approach in which one entity à notred down into low VEMI CLE 1 Bottom 1 Approach TOP down approach

onedary on miner * Relationstip of one super or subclassion of more than one Superdass. For example, Duner is the subset of two super class of vericles House Vehicle House owner Agregation -> It represents relationship between whole object & component. 20B BRANCH/ WORK EMPLOYEE Manago Maras

ERDIDDUED Touse the primary key of an entity set as an attribute of eset - Instead of using a relationship -> It is not always clear whether as object is best expressed by an entiry set or relationship -> Relation dup in databases are often Frank Codd D Rule -> Information Too! -> Gurarted Access Rule -> Apsentic Treatment of rullvally - Delf Des vibing Darabase - comprehensive Douta sublarguage -> view up dating Rule + High level insort update & delete -> Prystal Data independence -> Logical Davaindependence.

-> Integrity Mdependence -> Distribution independence -> Non Dub version Reule

Relation al sutiena

- The ER Model & RDB model

 one as strait, popical representation of real world

 entities.
- → An er model can be converted into a relational design:
 - a) Representation of strong entry sels with simple
 - b) Representation of strong entity with complex attributes
 - chiny sels (lunion)

Relational Model in BMS) can represent atable with now and whens each rowis called ruple -) each huble has a nam con altrowe Charactoristics · domain · affribule ovelational instance · relation al schema · relational neep Proporties of Relations Are - Norme of the relation is distinct han allotter relation - each relation consists one atomic value - Peach affibute contains distinct + affribreledomain has nostgniticance

- ruple has no duplicate values.
- order et ruple has distoren a sequence
sequence
padient manger at AR dinagram Horough
Reduction of er diagram through
- only yes becomes table
-> Entity represence to table -> All single value after butes becomes audumn for the rach
here all the pot the entity
-> A Rey attribute of the entity type is represented by
primary key
-> Le multivalued attributes is
- In multivalued attributes is reprented by a perporter
100 DIF
-> composite attubletes
-> composite attibutes represented by components
-> Doursed affibutes are
and direct of 10 Mg
rabbe

Participation constraints
Lit can be to tally

Total Pouti Every entity in the set is involved in some association of the relation

Partial Portines are involved in Notal entires of relations rup.

Project (3/15) (5/3)

Haximum Coordinality
Italfines the max

Minc It defines the min no of times

1.15

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a prous extended or gragram for banking, university & hospital Name Branchid Name Adores Brush HOD Bank Sourg cus code Hoin Account otto Add Lonid Kone ACC LOUN Account Type LOUT CAR Bell Yold Avoil A mount) Customa YOOK! Phone Sour Custa Name