Conversion of ER Diagrams to Table Section 7 Primary key

Ath_1 Ath_2 Ath_3 Ath.] (Ath. I) (Ath. I) tey Customer Comets to Entity Set Relational Table Entity Let converts to table Attribute converts to columns of table For every simple attribute, create a column of the table The key attribute will become primary key of the table However, composite attribute, multi-valued attribute and derived attribute need special treatment Mandling of Composite Attribute Composite attributes are those which can be split into for ey name as first name and last name In order to connect an entity set to table, the composite attributes are flattened out by creating a separate attribute for each component of composite attribute Create the columns for branches and genore the rout. I separate columns will be wated for first _ name & last_name and no need of creating name advance It Handling of Multi value Attributes Lywhich can take more than one value (C_Name) (mobile No) multi aluad (CN6.)-Castomer Possible Solution Solution 1 1 Create a column for each possible value of attribute for a sucord Mobile No. 2 roble CNO. C Name City Mobile No. 1 Problems with this solution. lanons operations like seturisel, updation, deletion of data becomes complex There will be many rows with NULL values Simplify of relational and model is lost (20) If we want to mobile no - 759, then we have to check all 3 columns to find 759 SELECT customer name from ustomer LHERE motale no. 1 = 759 mobile_no. 2 = 259 movile no. 3 = 759

Store multiple values by comma separation C no: | C Name | City | Mobile no: 321, 193, 367 Since there are commes =) Not an integr Problem a many discourse disco Integrity of data is lost Solution -3 (correct) Create Separate table for multi value attribute The primary key for this multirake attribute table will be primary key of entity table + multi-alue attribute C-no: aust name City boreign C no. | mobile no. Delhi 1 858 Cherrai 1 254 3 Chardgarh 2 3.92
3 869
Customer 3 985 Cust mobile news Mandling of Derived Atti bute No need to create whem for desired attribute
No need to creete column for ye, its value will be SELECT no of days 514 sysdate and do (SYSDATE - DOB) / 365 AGE FROM Custome today's dete subtract to get no of years

Many to Many Relationships It standling of fallow Stu-Tecas A student can have M Teachers A Teacher can teach any no of Students To depict this many to many relationship in table!

The add Toole in student table, the sol vill bail because a single student may have multiple teachers
(similar to use of multiple mobile no.s) - So, the appropriate soll is. To create a separate table to depict pue student-teacher Relationship having rollno. L Toode as its primary key for every many to many type of relationship creek
a separate table for relationship involving primary
key of all participating entity sets
reign key Rolling 7-tode Trade Twars Taders Roll no Name Address

Code (rang Code) called ward Aldoss A student can enroll only in one college but a college can have any number of students Rule. for every many to one type of relationship, there is no need to create a separate table for relationship copy the primary key of one entity set towards Pollno. Name Address C-code C-Code C-None CHI Cude (- Nama) (Address) sept Non (New Odday) college beet de beet one idlege com have many departments Rule of Exactly same as Many to one relationing primary by foreign Dept No D-Navo DAldron Close Cuode C. Nano C. Address

Hardling one to one Relationships

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(rolling) Relationships Crown Creamy Custon Partiel participation Principle can administer only one college one college can have only one principle for one to one Relationship, there is no need to create a separate table for relationship Copy the primary key of any of one entity set There are 2 possible sol's.

uither copy (code in principal table or wpy emp no. in college table At dule in case of one to one relationships having Partiel-Total Participation If there is an entity set with total principalian, always copy primary bey of one entity set bounds an entity set having total perhiption one wale hi key total wale in copy king