

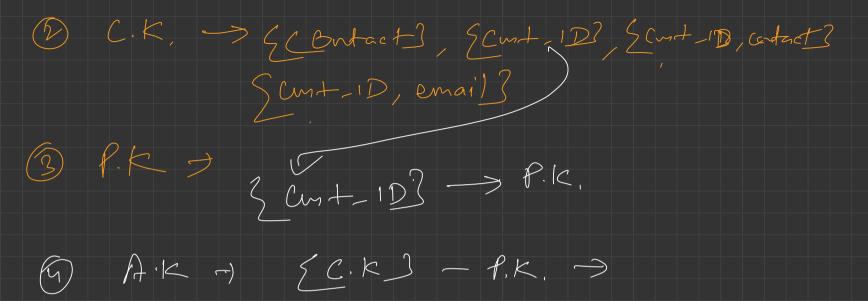
Relational Model !-- ant D Tables 13 - Name - addrey - Contact Table > Relation > Contact addm

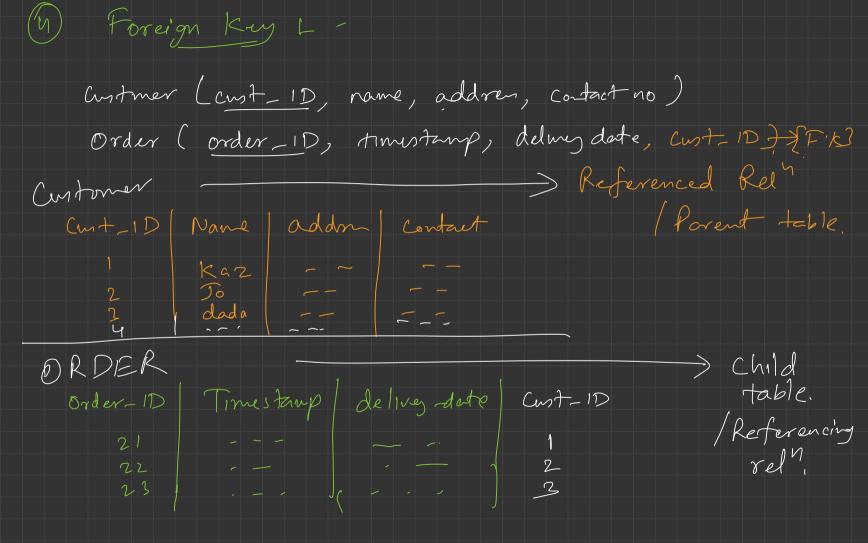
Degree of table > No. of attribut. Cardinality -> Total no. of Aple. 7) DB design 1-> ER Model -> ER diagram.

Relational Model > 3 RDBMS -> Software DBMS Software implendator of RM My SQL, MS accen, Oracle etc.

add rey D Continer ( Cust-1D, name, addres, contact no.) DRDER (order-1D, twestamp, deliver-dote)

2) Kry > Forgein Key 2) Kegs -> Primay ky -> each data point unarely identify Cust\_ID Name | Contact | addres | email / SCust-ID3 email), (Cust\_ID) SMW 1 Super ky j [ Cust-1D, Name, contact, email ] SRaj, 8883 SRaj, 8113







A Surrogate ky > Table of School A reg\_no reg.no hame Ram Monika Ram 101 Merged. teda 102 Monika ABIOI Tommy Tada. Nota, table of school B reg\_no AB101 name. Tammy Nota. AB102

CRUD contact. Age. Create Rollio Name

\* Referential contraint Cunt\_1D | Warne Customer: add contact no. Referenced tables. 1 Kaz

Referenced Dada ORDERI Childn 21
Referecting table 23 Cust\_ID -> F.K, delivery date Timstanp × NUU, 1) Insert constraint I value can't be inserted in child table if the value is not lying in parent table. Delete constant; ) value can't delete from parent take

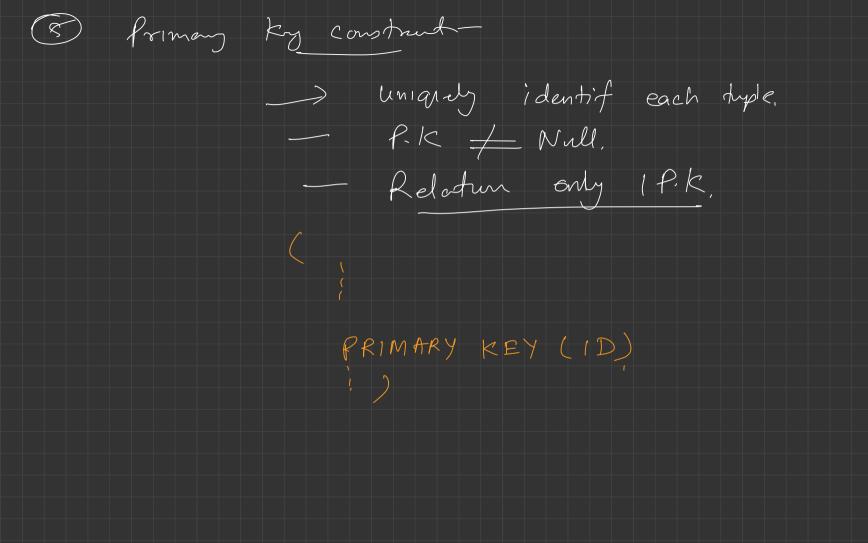
-) ON Delete Concade !-Can we delete value from parent table if the value is lying in the child table w/o violeting dette constant? -> delete value from parent table -> delete corresponding entry from Child table too. create table Order (order-1D int P.K, -- cont-1D int referencing Contomer on delete concade) z) Can F.K have Null value? ON Delete Will y delete value from parent table Put corresponding F.K vahe Null.

X Ky Constants 1-Not Null) By defaut a attribute/ column com be Null.

Enforce a column to not accept will. create Table Continer ( 1D int Not Null, Name varchar (50) Not Null, Age int

2) Unique constraint ( ) ensure all values in col. are diff. - Both umare & P. K constraint provide uniquenen. - you may have many umare constants per table
But only one P. K constants per table. create Table Contoner ( 1D int Not Null, Name vouzhor (50) Not Null, unique (ID)

3) Default Constant ? ( ) set default value of col, create table contomer ( Prime-status int DEFAULT 0, linit value Range (Domain) CHECK (age >= 18)



6 Foreign Key Constrant - Keeps reln b/m 2 table. Create table Order ( PRIMARY KEY (order\_ID) FOR EIGN KEY (Cost\_1D) Referencing Customer (Cust-12)