A hardional dependency is a constrained between his sets of attribute Free R(X,Y) X functionally determines Y (onther X-> Y)
Relative Set 25d X=X, Y=Y 1 The values actually stored

24:42 Roch Xi eX > y E / => To Xy R is a function (determined by X:)

(=) Two toples sharing the some value Xi's have too share

Value Those or y's low room

( ) A relation Rover the set of attributes U that satisfy the Pretional dependency X-3 y can be losseless join decomposed as Mxy (R) M Mxz(R) = R where Z= U-XY A cound date New 12 the attributes it a relation
fundiently determine all the attributes is a relation Countidate they Fractional depudenesses and attribute dan airs are solected )
( our so as to generate constraint that would extlict all the system of supprepriate desta like for the over downer from the system of t Logical Zimplication A set Z of buchond dependencies logically implies another set I'd dependencies, is colled ZI-I logical impliesation.

Amiliago amenatization: acous to ligital extenti Ky, Lisets of attrabetes Primary and X X Reflexible 0 X → Y => XZ → YZ Lym totre 0 X → Y, Y - 1 2 => X -> 2 Toushow Jean der the finences (derivable from the funences) e Union: X->Y , X->2 => X->YZ Contract & Span-postion: K-> 45 => K->4 X->5 Contract
Osylf ( Scrobbarshirly: X-V x W) -> => W+-> ? Another transp hate: · Confrostion. X-34 5-21 =3 X5-3/11 Olesme of ruch and deproducy Box relations. Fret of FDs on R. The closure Fishe set of all attributes determined by.

Courage to pare the way though 3NV o Alousery: No columns has viere (INF) (muybe a long text separated by assures). o 2 NF: Il ave have a condidate Kay ( A, B) and they there are as columns that don't should either A or to to bos their Curchion dependency; you've not in CNF. SPLIT. IEX: a book das only on author hur the sales
sol the example: Price Title | Former 1 Phython HS | Howscaver | Gelovannish 60 \$ Physhatte Elacol (Rosqueles 12 & Note that : Date of Aston and foundat Force Title, Format -> Rethor, Price, Prages BUT Total Extotler Couly Country Format > force only Boon-Pruce With Format Price Flushouth Howd coner Author Praces Myllatte Ebour 119 oBNF: ZNF ( No Frenzhive dependeneder (X 277, 428 Example. Title - A Genre W, Genre Nouse BUT the com be deduced by Title > Genre W, Genrell -> Gener Noung Thedundricy Started General DI Gente Name is a new

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Desided the reallier 1 - 1 Flo, Prom Bens 10 fis trival Cuchood depend: Proy when 1/2 Le (-X-> ) and X is a speckery (your of wall of) Ex: Title, Sullar, Anthor Nationally, compleyel, (): Actor - Malardationality Ry Toth, Everything Chie, Albert Action, Author Medically



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