BCNF Evaluation Tables

1) Company

FOS are as,

Compild -> Name, Address, Tel, Mob, DOR (P.K)
Name -> Compild, Add, tel, Mob, DOR (UNIQUE)

C.K = { CompId, Name }

R.H.S is S.K SO Company table in BCNF

2) Product Group

Fos are as,

Group IO -> Group Name, Comp Id Group Name -> Group Id (UNIQUE)

C.K = & GIO, Group Name}

R.H.S is S.K so Roduct Group is in BCNF

3) Product Category

FOS are aso

Category ID -> CName, Group ID, Comp Id.

Category Name -> Category Id (UNIQUE)

(.K= & Category ID, Category Name }

Since R.H.s is S.K hence, Product Category is in BCNF

4) Stock Fds
Stock Id -> CompId, Red Id, Stock Qty, Last Upd.
CompId, Red Id -> Stock Quantity, Last Updated \(
\text{CompId Ped Id}\) is also Stock Id a surrogate key, whereas (Compild Prolid) is also a determinant but not P.K , making (CompId, Red Id) primary key and removing Stock Id from the table. makes it in BCNF. Guantity, Last Updated CompId, Rolld -> Stock Quantity, Last Updated 5) Account Details

Account Detail ID -> Voucher No, Vouchertype, Acct Id, Debt, Credit, CompId, date, saleId, Richase Id mingraphic care for the

1948 14 30 K 80 Keep

i) Sale -> Acct Id ×
ii) Revchase Id -> Acct Id ×

iii) Act Id -> CompId ×

Make (NoucherNo, Vouckertype, Act Id) -> Debt, Credit, Date,
Sale Id, Rinchose Id

a composite key that removes FOS (i) 3 (ii). Hence mow in BCNF free f Aleson III . Alternation for the

and the straightening they say the second of the

6) Inventory FOS: Inventory ID -> Voucher No, Voucher Type, Red Id, aty In, atyout,
Act Id + ...... (All) , Purchase Id -> ProlId, CompId, Act Id X ii) SaleId -> Red Id, CompId, ActId X 111) ActId -> CompId X FOS i, ii), iii) don't have R. H.s as S.K so make a composite key (Noucher No, Voucher type, Ped Id) -> aty In, atyout, Entrydate,

Discount, total amount ... V determines all attributes and in BCNF t) Kurchase Details FOS are as, / Purchase Detail ID -> PId, ProlId, Quantity, Rice / Purchase Id, PodId -> Quantity, Price It is a determinant but not C.K. remove PurchasedetailId so that (Ruxchase Id, Rolld) becomes primary key and afterall Purchasedetail Id is so it gets in BCNF

18) Sales Detail SOId -> Sale Id, Red Id, Qty, Sale Price Sale Id, Ped Id -> Qty, Sale Price is a determinant not P.K., hence remove SDId so that (sale Id, Prol Id) becomes P.K., since SDId is unnecessary, thus remove it to get the table in Sale Id, Rol Id -> Oty, Sale Rice 9) Users FOS asy and in Basis UserId -> UserName, Password, User Role, Comptd. Username -> UserId V Both FO's have R. H.S. as S. K. So in BCNF Porton Colon Callet School Colon 10) Kayments FOS as, Payment Id -> CompId, ActId, Paymenttype, Amount, CashBank ID, Date, Voucher No, Reference, Sale Id Purchase Id

Since sits the C·K with R·H·S being S·K

It is in BCNF

11) Supplier Products Fds as, Supplier Id, Ped Id -> { } (Pure relationship)

Hence, in BCNF Parchase III. A Compile Supplier III.

12) Sales

Fds aso SaleId -> CompId, Customertd, Total Amount, Discount, Voucher No, Sale Date

Park Collect Source

Simple Participations

C.K = Esale Id3 Since, R. HS is S.K, hence BCNF

13) Products

ProlId -> All attributes Rolcode-> Rolld (UNIQUE)

C.K = { Rol Id, Rol Code } Hence, in BCNF since R.H.S is S.K.

14) Accounts AcctId -> Act Name, Address, tel, Mob, Mails Comptd, ActType Email -> ActId (UNIQUE)

C·K= { Email, Act Id}

## Since R.H.S is S.K, hence BCNF

15) Purchases

FOS as,

Purchase Id -> CompId, Supplier Id, Total Amount, Voucher No, Purchase Date

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Partie : P. Himes Willess Schlicher Volle Consider

C.K= { Purchase Id}

Since R.H.S is S.K, hence in BCNF.