- SI (product Code, brand Name, country, dispatch) =
- Monitor (product Code, brandName, Size, dispatch) 1 Size > 21 1 Brand (brandName, country, year)
- (2) S2 (produtCode, brandName) = Monitor (product Code, brand Name, size, dispatch) A dispatch = "FULLHO" 1 Brand (brand Name, wunny, year) 1 country = Japan n size < 17
- 3) 53 (productCode, brandName, 5;3e) C Monitor (product Code, BrandName, size, dispatch) 1 Brand (BrandName, country, year) 1 country = "K orea" 1 year 7,1990
- (4) SH (sellerName, Product code, Price) = Distributor (sellerName, product code, price) A monitor (product bode, brandName, size, disp tech)

Q(SN, price) = Monitor(PC, BN, size, "FULLHO") 1 size 721 Brand (BN, "Korea", year) 1 Distributor (SN, PC, price) Bucket Algorithm: List of possible bucket for Aistributor Brand manitor 51 x 52 (removed due to conflict) X52 53 54 SI (PC, BN, C, D), SZ(PC, BN), SH(SN, PC, price), COUMMY="Karea", dis patch="FULLHD" a) 51-52-54 manitor(Pc, BN, Size, dispatch) 1 size >, 21 1 Brand (BN, country, year) Monitor (PC, BN, Size, dispatch) / dispatch: "FULL NO" N brand (BN, country, year) country = "Japan" 1 size<17 Checking Containment. () 51-51-54 SI(PC, BN, wuntry, dispatch), Sy (SN, Pc, price) -> Monitor(P(,BN, 5ize), dispatch) 1 size > 21 1 Brand (BN, country, year) Monitor (productiode, BN, size, dispatch) 1 Distributor (SN, PC, Price) = 0 (SName, price) 53 (PC, BNISize), SI(PC,BN, country, disputch), SH(SN, PC, price), D 53-51-54 display Tech: I FUIL MA" -> monitor(PC,BN, Size, dispatch) 1 Brand(bN, country, year) 1 wuntry="Konea" Monitor (PC, bN, size, dispatch) 1 size > 21 1 Brand (bN, wuntry, year) 1990 7/1990 Distributor (SN, PC, Price) 1 monitor (1c, bN, size, dispatch) CQ (SNIprice).

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3) S4-53-S4
S4(SN, PC, Price), S3(PC, bN, Size), display tech= "FWLHO"
Distributor (SN, PC, Price) A monitor (PC, BN, Size, dispatch)
Monitor (PC, BN, Size, dispatch) A Brand(BN, country, year)
country = "Korea" A year >, 1990

C & (SN, Price)

```
03 converting LAV to Causal form
1) SI(PC, BN, wunnby, dispatch) = Monitor(PC, BN, SBe, dispatch) A
    813e > 21 n Brand(BN, Lainty, year)
> YPC, BN, country, dispatch [ SI(PC, BN, country, dispatch) >
      I size, year [monitor (pc, BN, size, dispatch) n greater (size, 21) 1
                       Brand (BN, country, year)]
> 751(PC, BN, country, year) V [Monitor (PC, BN, fi(Pc, BN, country, displech)) displech)
                                   Brand (BN, wunny, f (PC, BN, wunny, distateb)
                       dispatch
                                   greater (fi (pc, BN, wunty, dispkeh), 21)
       a → b = 79 v b
       ar (puc) = arp u arc.
 In Monther (PC, BN, (PC, BN, Courtry, displech) - SI(PC, BN, country)
  1.2brand (BN, country, f, (PC,BN, country, displace) = SI (PC,BN, country),
1.3 Greater (fi(PCIBN, country, drifteels), 21) = SI(PCIBN, country, dripteels).
   Using Similar approach for 52,53 and 54
(PC,BN) = 52 (PC,BN), f2 (PC,BN)) = 52 (PC,BN)
 2.2 Brand (BN, fr (PC,BN), fr (PC,BN)) = Sr (PC,BN)
 23/esstran (f2 (PC,BH),17) = 52 (PC,BN
3. [ Marilor (PC, BN, size, f3 (PC, BN, size) = 53 (PC, BN, 8ize)
3 2 Brand (BN, f3 (PC) BN, Size), f3 (PC, BN, Size) & S3 (PC, BN, Size)
32 Greater (fs (PC, bN, Size), 1990) + 53(PC, BN, Size)
" Distributor (SN, PC, PN3e) = SU (SN, PC, PN3e)
" manifor (PC, fu (SN, PC, PN3e), fu (SN, PC, PN3e))
                                                       ES4(JNIPCIPrize)
                  fu (SNIPC, prize)
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B(SN, Ride & Maniton (PC, BN, S, "FUUNDY) A Brand (BN, "Korea", Year) 1 Duributor (SN, PC, Price) 1 greater (size 121). Flamont (): Monitor (PCIBN, S, "FULCHA") @ Unify with 1.1 = Monitor (PC; BN; f, (PC; BN; wunty duptech), displech) substitution o = { PC-181', BN > BN', S-> f. (PC', BN', www. my) displach 1 1 FLUND (-) disptech) Price SI(PC', BN', country, "FULLNO",) Brand (BN', "korea, Year) 1 Greata (Gi(PC', BN', country, displach) 21), Distributor (SN, PC, price) Flement @: Brand (BN', "Koma", Year) (B) Unity with 1-1 Brand (BN, "Korea", fi (PC, BN, "Korea", "FULIND") Substitute o= { PC > PC', BN > BN", country = Korea, DT > "full ND", Year -> fi (PC", BN", "Kover", "Full NO")} PYZ(JN, P) = SI (PC", BN", "Kovea", "FWIND"), SI (PC", BN", "Kovea", "FWUND"), 21),
greater (FI (PC", BN", "Kovea", "FWUND"), 21), Distributor (SN, Pc", price) Prz (SN, Pile SI (Pi", BN", "Kored", "FWHD") greater (fr(P(", BN", "Korea"; "fulto"), 21). Distributor (SN, P(", price) Element (3): greater (h (P(", BN", "korea", "full HD"), 21) @ Unify with 1-1 greater (fl (Pi", BN", 'Korea', "fu 40"), 21) Substitute { PC"> P("1, BN") > BN") } Prz(N. Price) = SI (PC", BN", "Koveg", "Full ND"), SI (PC", BN", "Koveg", "Full ND"), Dis mouho (SN, PC", price).

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Eument (3) Dishibutor (sn. P(", priu)

Unily with H.1 Dishibutor (sn', P("'Pile)

Subshibute r = { sn > sn', P("'> P("') Priu) > Priu)

Pru(sn,Piu) = si(pc", Bn", "Karea", "funvo") Su(sn', to", prive).