RIAB, C.D.E.F) ( 1 () we'll ANBCID انف) BC-SIDE closure firs = 1B) = BDACE BAD B - 0 10 - A = 1 B - A A - B < 0 DAA A + BCD =) A + BC =) A + DE =) B + DE
BC+DE B+A unique de FO me is Nobil il ins a grant' in unique ni ciling is sieres FO extraneous attribute se a faire una per poi cini river bou inimi costos (A, BC, 13, D را برسی کنع . از اولین FD مشروع می کنع: 1 A BCO (A + BD F' BC→DE B→D D→A F S BC + DE F' BC -> DE BOD BAD 1D-A NEW ASB IN AMY ENDER FOR " entarion Fr Fil extraneous - min I A you . Time BC-DE = A-DE = A-D=> They A > ( In peny نهائدس کد اتربیوت · Lie Extraneous Just in D Com . France E ME :1 60 FO in 1 1 iT us, and extraneous A + BC : into mossis con , mis remove QBC > DE : pus co ( diens) os FID ( UC) 0 · JABC · JASEC JA ABC FYBJOE FIBCHE F' BCAD BOD 3-10 DAA DAA (D)A HISTORY FOF II Washing Fr F ; Mr Killer F . F.) TIC OW, RY in the extranous = suit is BC - E = BC - DE exteneus = === i E Um Extraneous Truit نتابن

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```
F= BC -> E
B-> D
                                                                                                                                                                      · De Canonical Cover pro Cover Cover
                                                                          condidate keys=YAF3, YDF3, YBF3
   in a (BC) bas ED is (A) Oil ED is of Super key in ED in ENE Oil BONE Oil of Chilo
              BONF Pin ile Com Digo Super key when I was the 101 Piles FD is 9 (B) Pen FD is
FOUND (AUB) = (ABCID) => \begin{cases} A^{+} \neq BCD \neq = A \Rightarrow BCD \\ B^{+} \neq BDACE => B \Rightarrow ABC => CK = YAT => \frac{1}{2} \text{disconstruction} \\ CT = (B = V) = (A = F) \text{ (and idate } \text{ is } \text{ is } \text{ (and idate } \text{ is } \text{ is } \text{ (and idate } \text{ is } \text{ is } \text{ (and idate } \text{ is } \text{ is } \text{ is } \text{ (and idate } \text{ is } \text{ is } \text{ is } \text{ is } \text{ (and idate } \text{ is }
                                                                                       Condidate key = {AF3, {DF}, {BF3
                                                                                  Non Prime attributes = CE
            DAA
       decomposition
           => R = (ABC)
                           RZ= (B(E)
                           R3 = (BD)
                          R4 = (DA)
                          R5 = (AF) 12 (OF) 13 (BF)
```

( Y U's Condidate key = { visitNO , Prov NO} =) Non-Prime attributes = Visit Date , Patno , Pat Age, Patcity, Prov Specialty , Diagnosis =) Smilitpliand FD: PatNO > Pat Age, Pat City condidate key = } Patrioz عدن نعن عام BCNF RI= {PatNo} = {PatNo, Pat Age, Patcity} => . Zum 3NF/ -> tonsitional las R2 = { VisitNo, visit Date, ProvNo, Prov specialty, Diagnosis, PotNog . sist condidate = Y visitNo, ProvNog . In BONF 1) juises - transitional ly) =) R<sub>2</sub>, R<sub>1</sub> (1) P =) 0. . ...... 3NF 5?

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12-7 2-7 YX -YZV YVW -XTZVW => Candidate key= Yvw3, yxw3 = 1 super key = YVWT to YXW3+ X-> X -> X -> X -> X -> X closure => YX3 = XYZV X - X : pisacol in lossess blis الدسدت ما الاسدتمام = الرسدتمام 0 بس ودن عرص شده برقرار الذه تعزيري عمر  $(R_1)$   $(R_2)$ , cul (loss less) ¿ vai in R2, R1 =) (x, x, z, v, w) = (x, v, w) U(x, Y, z) = (x, Y, z, v, w) (R<sub>1</sub>) (R<sub>2</sub>)  $\neq \phi$  $= (x, y, w) \cap (x, Y, z) = (x) \neq \phi$ 3 condidate key (R2) 3(R) 552 R2 5 R1 (x) = (condidate 3 R. (XIVIN) R2 (X, Y, Z) x+ + /2/V x => X -> V X= X= X X= X ZX=X =) candidate = {x} =) candidute = { XW} Y= YZ => Y->Z 2+= xY=> 2->Y Yz+= 42

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