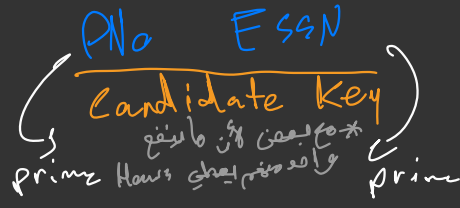
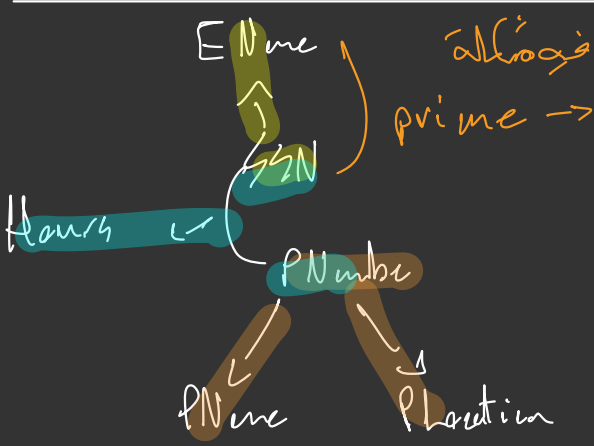


workson



Primary key في الـ index file  
توجد Key بـ (a, b) File هو جوده فـها بيانات الـ



الـ  
prime  $\rightarrow$  non prime

$R_1(ESSN, EName)$   
 $F_1 = [ESSN \rightarrow EName]$

$R_2(PNumber, PName, PLocation)$   
 $F_2 = [P\# \rightarrow PName, PLocation]$

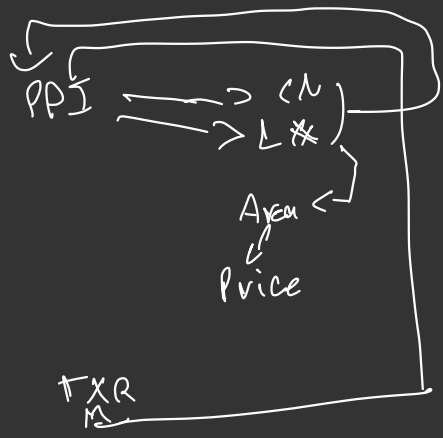
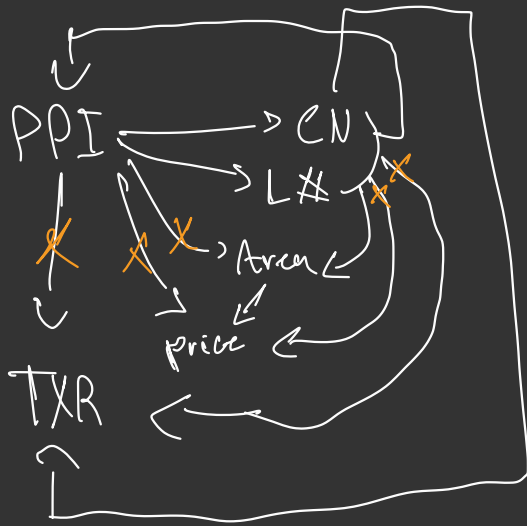
$R_3(ESSN, P\#, Hours)$   
 $F_3 = [ESSN, P\# \rightarrow Hours]$

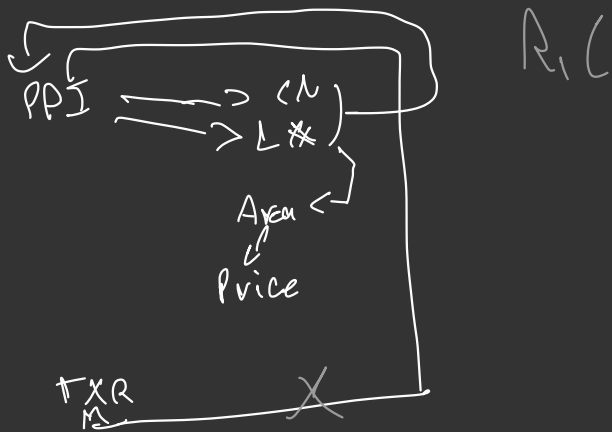
ESSN, PNumber Candidate key  
ESSN Prime  
PNumber Prime

P.14 slides

1- طلع المفتاح : Candidate Key = PPI ;

(CN, L#) Key  
prime prime





$R_1 (\underline{CN}, TXR) \quad F_1 = [CN \rightarrow TXR] \text{ BCNF}$

$R_2 ($

$R_{21} (\underline{Area}, price) \quad F_{21} = [Area \rightarrow price] \text{ BCNF}$

$R_{22} ( \quad ) \quad F_{22} = [ \quad ]$

$\uparrow$  empty?  
 $\uparrow$  empty?

add 3NF example

3NF {

- 2NF: prime  $\rightarrow$  non prime ~~X~~
- non prime  $\rightarrow$  non prime

$$X \rightarrow Y$$

1. 3NF غير

$X$  is Key  
 $Y$  is prime

شروطها

لا يجوز حذف

Prime لا يجوز

الأنواع (3NF Good)

BCNF

$$X \rightarrow Y$$

$X$  is Key // شرط الوحيد

من / حول معنى 1 BCF

$$R(ABC) \quad F = \{AB \rightarrow C, C \rightarrow B\}$$

$$F = \{AB \rightarrow C\}$$

$$R_1(CB) \quad F_1 = \{C \rightarrow B\}$$

$$R_2(AC) \quad F_2 = \left[ \begin{array}{c} \\ \uparrow \\ \text{empty} \end{array} \right]$$

الطالع

