

120L020322 刘祚甫

- 一.
1. 计算 $X^{(1)}$, $X^{(1)} = \{ABCD\}$
 计算 $X^{(2)}$, $X^{(2)} = \{ABCDE\}$
 计算 $X^{(3)}$, 得 $X^{(3)} = X^{(2)}$

故 $(AB)_F^+ = \{ABCDE\}$.

2. $\{AB \rightarrow C, BC \rightarrow A, D \rightarrow E, CF \rightarrow B, AB \rightarrow D\}$
3. $\{ABF\} \quad \{CF\}$
4. $\{ABC\}, \{DE\}, \{BCF\}, \{ABD\}, \{ABF\}$

二.

(1) ~~计算~~ $\{B \rightarrow C, B \rightarrow E, C \rightarrow B, AB \rightarrow D, E \rightarrow F\}$

(2) ~~计算~~ $\{AB\} \quad \{AC\}$

三.

(1) 函数依赖集: $\{A \rightarrow B, A \rightarrow C, BC \rightarrow D, BC \rightarrow E, D \rightarrow F, E \rightarrow G\}$.

候选码: A

(2) 不符合, 有传递依赖

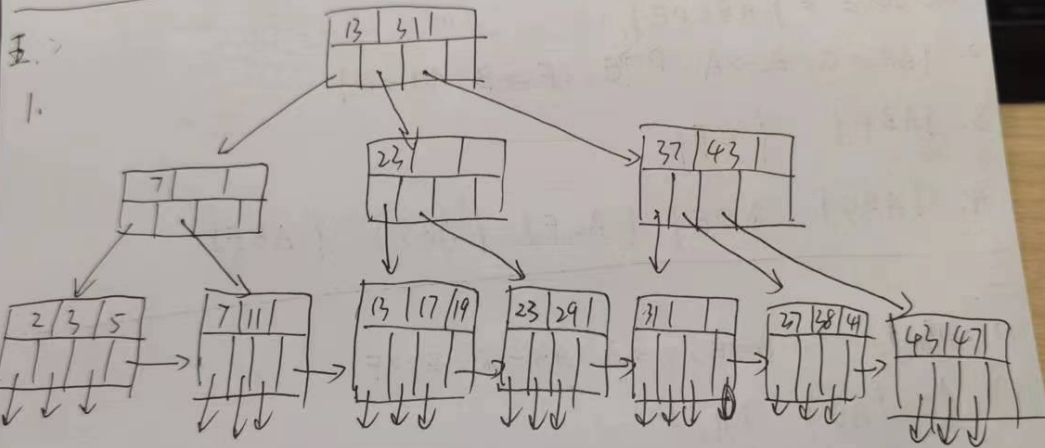
$DNo \rightarrow DName$
 $F = \{CNo \rightarrow CName, PNo \rightarrow \{PAddr, ONo, OName, DPhone, STime, ETime\},$
 $\{CNo, PNo\} \rightarrow \{STime, ETime\}\}$

$CNo \rightarrow CName, PNo \rightarrow PAddr, PNo \rightarrow Rent, PNo \rightarrow ONo, PNo \rightarrow OName, PNo \rightarrow DPhone,$

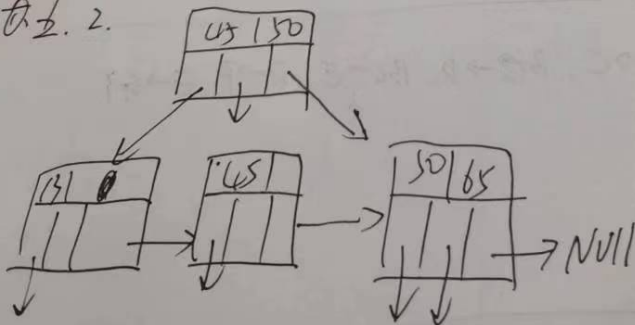
$\{CNo, PNo\} \rightarrow STime, \{CNo, PNo\} \rightarrow ETime, DPhone \rightarrow ONo, DNo \rightarrow DName$

(2) NF

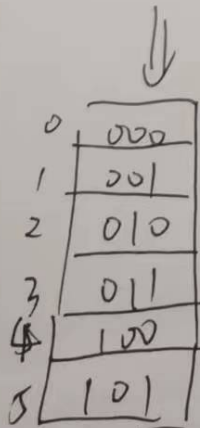
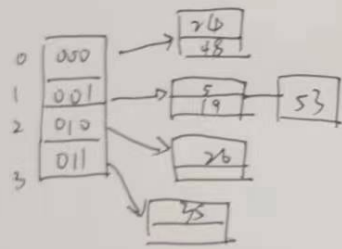
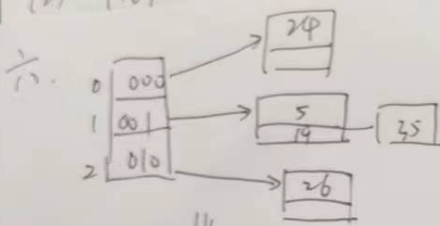
(3) (CNo, CName) (PNo, PAddr, Rent, ONo) (ONo, OName)
(ONo, OPhone) (\oplus CNo, PNo, STime, ETime)



Ex. 2.



(2) INF



七.

