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Consider a relation T(L, M, N, O, P) with FDs

- LM→OPN
- PM→N
- O→P
- LP→N
- MNOP→L

Using the method covered in class, find a minimal cover for this relation. Write your answer here:

1.

$LM \rightarrow O$ ° $PM \rightarrow N$ °

~~$LM \rightarrow P$~~

~~$LM \rightarrow N$~~

$O \rightarrow P$ °

$LP \rightarrow N$ °

$MNOP \rightarrow L$ ° → $MO \rightarrow L$ since $MP \rightarrow N$ and $O \rightarrow P$

$LM \rightarrow P$, $LM \rightarrow N$ can be removed

2.

$LM \rightarrow O$

$O \rightarrow P$

$LP \rightarrow N$

$MO \rightarrow L$

$PM \rightarrow N$

Minimal Cover