in is

B(1) R(A,B,C,D,E,G,H)  $F=\{AB\Rightarrow CD, E\Rightarrow D, ABC\Rightarrow DE, E\Rightarrow AB, D\Rightarrow AG, ACD\Rightarrow BE\}$   $AB\Rightarrow D$ ,  $ABC\Rightarrow Z$ ,  $E\Rightarrow B$ ,  $D\Rightarrow G$ ,  $ACD\Rightarrow B$   $AB\Rightarrow D$ ,  $ABC\Rightarrow Z$ ,  $E\Rightarrow B$ ,  $D\Rightarrow G$ ,  $ACD\Rightarrow E$   $AB\Rightarrow D\Rightarrow C$  &  $E\Rightarrow D\Rightarrow G$ .  $AB\Rightarrow D\Rightarrow C$  &  $AB\Rightarrow C$  &

4B>D, ABC > D

1. DATE, ACD > BE makes non-prime attribute, in R.

partially dependent months on YA,B,c {

1 1 1 1

:- R # 2NF &: attribes in R are all individue value
:- R is INF

B3: A B C D E G 14

R, a, a, a, a, b, b, b, b,

kr br br br ar ar ar ar.

4 FD & D > AG \cdot \c

- 1. Others FD would not make any difference
- C. PABLET ABLD, DZGITJ is not lossless-join

Q4: base on the algorithm To-BCNF

Make R

1. AB > D is not BCNF

RI (ABD) RZ (ABCEGH)

" E > AB make R is not BLAT

P21 (ZAB) P22 (ZGM)

in decompose & into P. (ABD) Rx (EAB) P3 (EC411)
which is BLAT.