Hw4 q1

$$R(A.B.C.F)$$

$$R(A$$

Lossless - Join Deamposition:

 $R(X, Y, Z) \rightarrow R_1(X, Y) R_2(Y Z)$ is lossksjoin if $Y \rightarrow X$, $Y \rightarrow Z$ Y is the shared attributes need to be that's to say. Sharef attributes need to be the key of RI or RZ.

Answer: shared attribute is A.

Does A -> BCF?

OR DOPS A -> DE?

cheek $A \rightarrow BCF$? $\{A\} = \{ABC\}$ $\{A\} = \{ABCD\}$ $\{A\} = \{ABCD\}$

Thus. A -> DE is correct,
Therefore: the De composition of R is lossless