

In-class Exercises: Projection and Minimal Basis

1. Suppose we have these FDs: $S = \{ABE \rightarrow CF, DF \rightarrow BD, C \rightarrow DF, E \rightarrow A, AF \rightarrow B\}$

Project the FDs onto: $L = CDEF$

Attributes to take all subsets X of:				Closure of the subset X^+	Functional dependencies inferred
C	D	E	F		

Final answer: The projection of S onto L is

2. Find a minimal basis for this set of FDs: $S = \{ABF \rightarrow G, \ BC \rightarrow H, \ BCH \rightarrow EG, \ BE \rightarrow GH\}$.

Final answer: A minimal basis for S is