

HW1.6

(Individual Makeup Assignment)

Canonical cover of FDs

Homework 1.6

1. Suppose you are given a relation $R=(A,B,C,D,E)$ with the following functional dependencies: $FDs = \{BC \rightarrow ADE, D \rightarrow B\}$

- Find all candidate keys
- Identify the best normal form the R satisfies.

2. Given relation $R = \{A,B,C,D,G,H,I\}$ and $FDs = \{AD \rightarrow C, DC \rightarrow B, CG \rightarrow I, ACG \rightarrow H, C \rightarrow BG\}$.

- Find all candidate keys
- Is R in 1NF/2NF/3NF/BCNF?
- Find the canonical cover of F.