Losure Aforithm = ABCDE

Input: X, F.
Output: X^+ $X^+:=X;$ repeat $oldX^+:=X^+$ for each fd $Y \rightarrow Z$ in F do
if X^+ is superset of Y then $X^+:=X^+U$ Z;
until $(X^+=oldX^+);$

Jes (NO)
AB > F

ABT

R(ABCD), F = {AB → C, AC → D}
R(ABCDE), F = {AB → C, CD → E}
R(ABCDE), F = {A → B, C → D, AC → E}
R(A,B,C,D,E,F), F = {AB → C, BC → AD, D → E, CF → B}
R(CourseNo, Sem, AcadYear, InstructorID, StudentID, Grade).

Identify FDs yourself.

$$\frac{RI}{AB \rightarrow C} \qquad \frac{AB + = ABCD}{AB + = ACD}$$

R(ABCD),
$$F = \{AB \rightarrow C, AC \rightarrow D\}$$

R(ABCDE), $F = \{AB \rightarrow C, CD \rightarrow E\}$
R(ABCDE), $F = \{A \rightarrow B, C \rightarrow D, AC \rightarrow E\}$
R(A,B,C,D,E,F), $F = \{AB \rightarrow C, BC \rightarrow AD, D \rightarrow E, CF \rightarrow B\}$
R(CourseNo, Sem, AcadYear, InstructorID, StudentID, Grade).
Identify FDs yourself.

$$AB \rightarrow C$$
 $CD \rightarrow E$

R(ABCD), $F = \{AB \rightarrow C, AC \rightarrow D\}$ R(ABCDE), $F = \{AB \rightarrow C, CD \rightarrow E\}$ R(ABCDE), $F = \{A \rightarrow B, C \rightarrow D, AC \rightarrow E\}$ R(A,B,C,D,E,F), $F = \{AB \rightarrow C, BC \rightarrow AD, D \rightarrow E, CF \rightarrow B\}$ R(CourseNo, Sem, AcadYear, InstructorID, StudentID, Grade). Identify FDs yourself.

SCNO, Aldyr, Sem 3 - Instrutered SCN, Acadyr, Sem, SID3 -> grade prenimal Key: Set of allaborate X = R

$$\{A \rightarrow BC, B \rightarrow C, A \rightarrow B, AB \rightarrow C\}$$

$$\{B \rightarrow A, D \rightarrow A, AB \rightarrow D\}$$

$$\{AB \rightarrow C, B \rightarrow D, D \rightarrow A\}$$

$$\{AB \rightarrow CD, B \rightarrow C, C \rightarrow D\}$$

$$\{A \rightarrow BC, B \rightarrow C, A \rightarrow B, AB \rightarrow C\}$$

$$\{ABC \rightarrow D, A \rightarrow B\}$$