

Q1. Consider the following datalog program.

R(1,2)

R(1,3)

S(5,6)

S(3,7)

S(2,7)

T(x,z) :- R(x,y), S(y,z), y > 2

T(x,z) :- R(x,y), S(y,z), z > 6

1. Use the assignment table method to construct the result of relation  $T$ .
2. Write the relational algebra query corresponding the datalog program.

Q2. Consider the following relations.

Movies(title, year, length, genre, studioName)

StarsIn(movieTitle, movieYear, starName)

Write a datalog program to find the actors that starred in 'sci-fi' movies produced by 'Disney'.