1/1 point (ungraded)

Consider tables R(A,B) and S(B,C) and a query Q = select A,C from R,S where R.B=S.B and A < 10 and C > 20. Which of the following materialzed views can NOT be used to help evaluate Q?

- V1 = select A,C from R,S where R.B=S.B
- V2 = select A,C from R,S where A < 10 and C > 20
- \bigcirc V3 = select A,R.B,S.B,C from R,S where A < 10 and C > 20
- V4 = select * from R where A < 10

Explanation

Q can be evaluated on V1 or V3 by applying selection conditions. Q can be evaluated by joining V4 with S. V2 does not have enough information to enforce R.B=S.B.