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Q2

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For the relation Apply(SSN,cName,date,major) with functional dependency $SSN, cName \rightarrow date$, what real-world constraint is captured by $SSN \twoheadrightarrow cName, date$?

- ☐ A student can only apply to one major at each college.
- ☐ A student can apply to different majors at each college, but each major must be applied for on a different date.
- ☒ A student must apply to the same set of majors at all colleges.
- ☐ A student must apply to a different major at each college.



Explanation

$SSN \twoheadrightarrow cName, date$ says that (cName,date) and major are independent, i.e., all combinations of (cName,date) and major must be present for any college or major a student applies for.

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