Here is my attempt:-

| COURSES |  |
| :--- | :--- |
| Cno. | CName |
| 1 | C1 |
| 2 | C2 |
| 3 | C3 |


| PRE-REQ |  |
| :--- | :--- |
| Cno | Pre-Cno |
| C1 | C2 |
| C1 | C3 |
| C2 | C3 |
| C3 | C1 |


| COMPLETED |  |
| :--- | :--- |
| Student_no. | Cno |
| 2300 | C1 |
| 2305 | C2 |
| 2310 |  |

Here student 2310 has completed C3. Now see, C3 is pre-requisite for what?,
C3 is pre-requisite for C2 only. And this query is asking us to print (retrieve) C2.
(In case 2310 completes C1 and C3, these two courses are pre-requisite for C3 and C2 respectively, Then C2 and C3 will be answer.)

How to print C2, given that 2310 completed C3?
This simple query won't work- $\Pi_{\mathrm{cno}}[\sigma$ Student_no. $=2310($ COMPLETED $) \bowtie($ PRE-REQ $)]$
It also retrieves C1, but all pre- requisites of C1 are not done by 2310 , only some (in fact one ) prerequisites are completed.

We can do it using Division Operator-
PRE-REQ / $\Pi_{\text {cno }}[\sigma$ Student_no.=2310(COMPLETED)] (It is again wrong, it retrieves Pre-Cno, NOT Cno. And meaning of whole query changes.)

We first have to rename attributes then we can use division operator.

