Question 1 30 pts

Consider the relational schema below:

```
Students(<u>sid: integer</u>, sname: string, major: string)
Courses(<u>cid: integer</u>, cname: string, hours: integer)
Enrollment(<u>sid: integer, cid: integer</u>, grade: real)
```

Write a relational algebra expression that satisfies this query?

• Find the distinct names of all students that take at least three courses and do not major in "Philosophy".

Submit your answer as a file attachment. You may write the answer in pencil and take a picture and submit that picture.

Be sure to put your name and a copy of the question into your submission file.

Name: Jinwei Zhang

Answer:

TI sname (
$$\sigma_{sid}$$
 σ_{count} (cid) ≥ 3 \wedge major \neq 'Philosophy (Students \bowtie Enrollent)