


student_id	course_id	score	name	level	Aggregation features by student_id	
					count(course_id)	max(course_id)
1	1	4	Adam	senior	2	2
1	2	2	Adam	senior	2	2
2	1	3	Bob	junior	3	3
2	2	2	Bob	junior	3	3
2	3	3	Bob	junior	3	3
3	2	1	Erin	senior	1	2
4	1	4	Rob	junior	2	3
4	3	4	Rob	junior	2	3
5	2	5	Dan	senior	3	4
5	3	2	Dan	senior	3	4
5	4	1	Dan	senior	3	4
6	2	4	Peter	senior	2	4
6	4	5	Peter	senior	2	4
7	1	2	Sai	senior	3	4
7	3	3	Sai	senior	3	4
7	4	4	Sai	senior	3	4

(a)


  
**count(course\_id) >= 3**


student_id	course_id	score	name	level
2	1	3	Bob	junior
2	2	2	Bob	junior
2	3	3	Bob	junior
5	2	5	Dan	senior
5	3	2	Dan	senior
5	4	1	Dan	senior
7	1	2	Sai	senior
7	3	3	Sai	senior
7	4	4	Sai	senior

(b)


  
**level = "senior"**

student_id	course_id	score	name	level
5	2	5	Dan	senior
5	3	2	Dan	senior
5	4	1	Dan	senior
7	1	2	Sai	senior
7	3	3	Sai	senior
7	4	4	Sai	senior

(c)


  
**group by student\_id**

student_id	course_id(s)	score(s)	name(s)	level(s)
5	2, 3, 4	5, 2, 1	Dan	senior
7	1, 3, 4	2, 3, 4	Sai	senior

(d)


  
**projection**

name	max_score
Dan	5
Sai	4

(e)