```
1) m = (course × classroom × section)
   n = (\sigma section.course_id = course.course_id \land section.building =
                                course.title = 'Database System Concepts' m)
      classroom.building A
   \pi Classroom_Capacity \leftarrow classroom.capacity (n)
2) π Student Name \leftarrow student.name, Course Title \leftarrow course.title (σ
student.ID = takes.ID \( \) takes.grade = 'A' \( \) student.dept_name =
                         takes.course id = course.course id (course x
course.dept name \( \Lambda \)
student × takes))
3) \sigma tot cred = 0 (student)
4) \pi instructor.name (\sigma classroom.capacity < 100 \wedge instructor.ID =
      teaches.ID \( \) section.room_number = classroom.room_number
      (instructor × teaches × section × classroom))
5) y building; max(instructor.salary) \rightarrow maximum salary (department \bowtie
      instructor)
6) a = y course id; count(ID) \rightarrow number of students takes
   b = \pi title, course id, number of students (a \bowtie course)
   п title, course id, section.semester, section.year, number of students (b ы
      section)
7) m=\gamma course_id;count(ID) \rightarrow count_ID takes
   n = y ; MAX(count ID) \rightarrow max (m)
   res=m \bowtie (count ID = max) n \bowtie course
```

п course.title res