

## Assignment 2

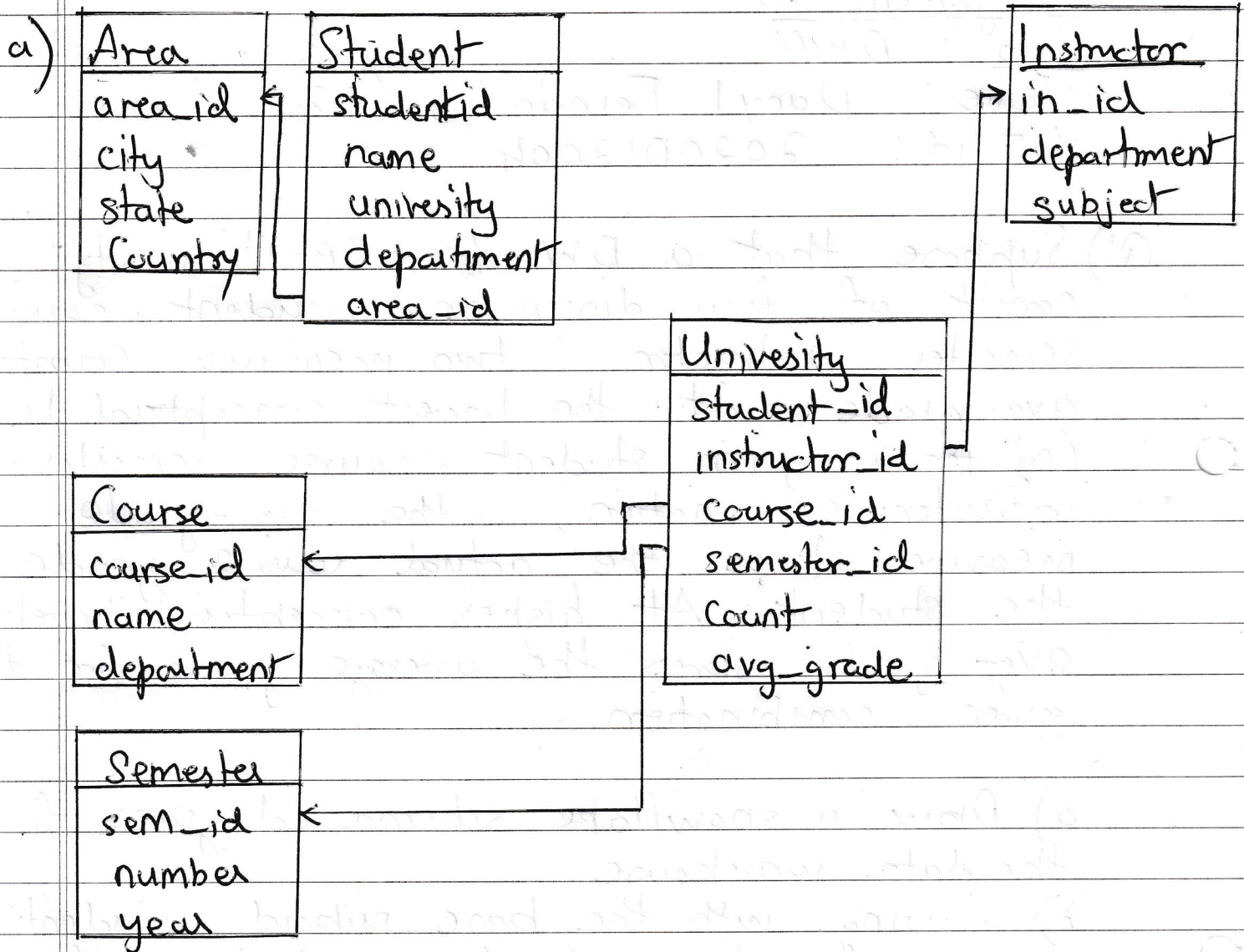
Sub : DWM

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Q1) Suppose that a DW for DB-University consists of four dimensions Student, Course, Semester, Instructor & two measures Count & avg. grade. At the lowest conceptual level (eg for a given student, course, semester & instructor combination), the avg-grade measure stores the actual course grade of the student. At higher conceptual levels, avg-grade stores the average grade for the given combination.

- Draw a snowflake schema diagram for the data warehouse
- Starting with the base cuboid [Student, Course, semester, instructor] what specific OLAP operations (eg roll up from semester to year) should you perform in order to list the average grade of CS courses for each DB-University students



b) Operations to perform

- i) Rollup on course from course\_id to department
- ii) Rollup on student from student\_id to university
- iii) Dice operation on course department = CS & university = DB-University
- iv) Drill down on student from university to student\_id