**(67506) Databases – Spring 2022 – Exercise (2)**

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***Question (1): Relational Algebra***

authors (name, conference, year, institution, count, adjustedcount)

conferences (conference, area, subarea)

institutions (institution, region, country)

1. Names of authors belong to HUJI.
2. Names of authors belong to an Israeli institution, and the name of the institution.
3. Names of authors (and their corresponding institution) belong to an Israeli institution, whose , in any conference with subarea of “” or area of “”.
4. (a) Names of authors from HUJI, who publish papers in conference with subarea of “” and in conference with subarea of “”.

(b) Names of authors from HUJI, for which there is a year, they publish in this year papers in conference with subarea of “” and in conference with subarea of “”. Return rows in the form: .

This article differs from the previous, in that both conferences must be in the same year, where the previous asks about who published in the two subareas no matter if they were in the same year or not.

1. Names of authors who publish only in the “” area, only before .
2. Names of authors who publish a paper in every conference in “” area, in which “Noam Nisan” has published a paper (but not necessarily in the same year).
3. For every year from to , return row(s) of form () of record-holder(s) from HUJI.

***Question (2): SQL queries***