

University of Ottawa
Faculty of Engineering
School of Electrical Engineering and Computer Science
Assignment 1

Relational Algebra and Relational Calculus

<i>Course</i> CS12132	Databases I
<i>Academic year</i>	2022-23
<i>Semester</i>	Winter
<i>Instructor</i>	Verena Kantere
<i>Announced</i>	06.02.2023
<i>Submission</i>	21.02.2023

Every student must submit the assignment individually

Exercise 1 (15%)

Consider the following database schema that describes information about products that are supplied by stores. The relational schema *Store* has as primary key the attribute *storeid* and the relational schema *Product* has as primary key the attribute *pid*. The relational schema *Supply* stores pairs of stores and products supplied by the former; the primary key is the combination of *storeid* and *pid*; moreover, *storeid* is a foreign key to *Store* and *pid* is a foreign key to *Product*.

```
Store (storeid, sname, employee_number, city)
Product (pid, pname, price)
Supply (storeid, pid)
```

Express in relational algebra the following queries:

- A. (3%) Find the *storeid* of the stores that have fewer than 100 employees or are located in the city 'Ottawa'.
- B. (4%) Find the *sname* of the stores that supply the product with *pname* 'pencil'.
- C. (8%) Find the *sname* of the stores and the *city* they are located, such that these stores supply all the products that are supplied by the store with *storeid* equal to '0808'.

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Minjie Lin

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

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