University of British Columbia, Vancouver

Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 3

Date: November 2nd, 2022

Group Number: 67

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Timeline and Task Breakdown:

General Timeline:
Completed SQL script (by Nov. 20)
GUI implementation (by Nov. 24)
Backend for queries (by Nov. 24)

Description of final project (Finished by Nov. 25)
SQL initialization script + screenshots of output (by Nov. 20)
List of SQL queries for query M4 reqs + screenshots (by Nov. 24)
Readme (Finished by Nov. 25)

Insert Operation - user specified input (you can choose table)
Delete Operation - cascade on delete - user specifies tuple (you can choose table)
Update Operation - user specifies values/attributes (you can choose table)
Selection - user chooses everything
Projection - user specifies two tables to project
Join - user specifies at least one value for the WHERE clause
Aggregation with Group By - provide interface - show table result
Aggregation with Having - provide interface - show table result
Nested Aggregation with Group By - provide interface - show table result
Division - provide interface - show table result
        Front end + back end for queries ^

Graphical User Interface Sketches:
Provided below

VOLLEYBALL DATABASE

VOLLEYBALL DATABASE

INSERT INTO

relation name ▼

VALUES

attribute name: textfield

attribute name: textfield

attribute name: textfield

attribute name: textfield

attribute name: textfield

INSERT ✓

VOLLEYBALL DATABASE

DELETE FROM

| relation name ▼ |

WHERE

key value is: | textfield |

key value is: | textfield |

note: number of
primary key values
textfields
dependent on
relation

DELETE ✓

VOLLEYBALL DATABASE

UPDATE FROM | relation name ▼ |

WHERE   key value is: | textfield |

key value is: | textfield |

CHANGE   value at: | attribute name ▼ | to: | textfield |

value at: | attribute name ▼ | to: | textfield |

value at: | attribute name ▼ | to: | textfield |

UPDATE ✓

VOLLEYBALL DATABASE

SELECT FROM | relation name ▼ |

WHERE   attribute name: | attribute name ▼ | | ▼ | | textfield |

| = |
| > |
| < |

| ▼ |
| AND |

attribute name: | attribute name ▼ | | ▼ | | textfield |
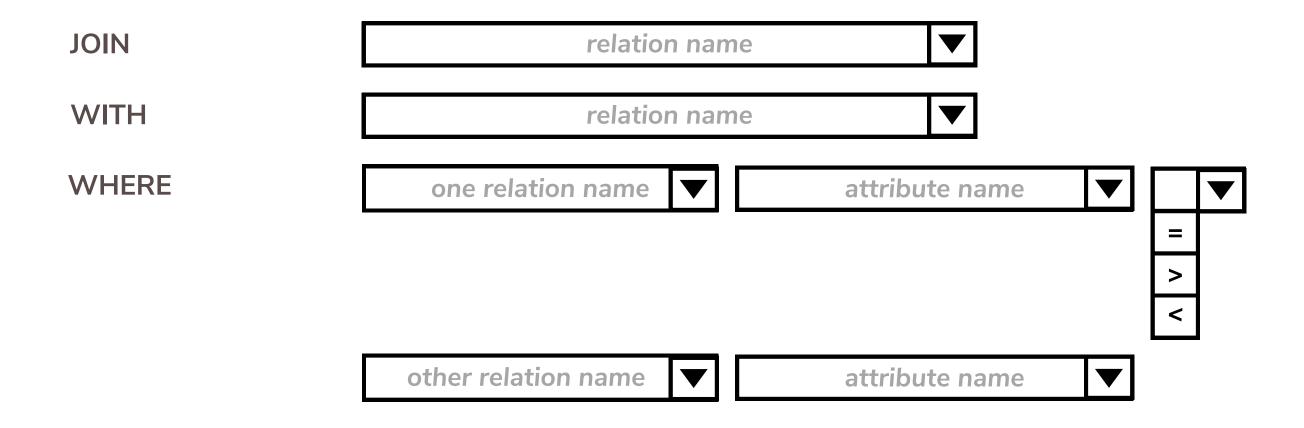
SELECT ✓

FROM

relation name ▼

PROJECT

attribute name: attribute name ▼

attribute name: attribute name ▼

attribute name: attribute name ▼

attribute name: attribute name ▼

attribute name: attribute name ▼

PROJECT ✓

JOIN | relation name ▼ |

WITH | relation name ▼ |

WHERE | one relation name ▼ | | attribute name ▼ | | ▼ |
                                                                    | = |
                                                                    | > |
                                                                    | < |

            | other relation name ▼ | | attribute name ▼ |

JOIN ✓

DIVIDE

| relation name ▼ |

| relation's attribute name ▼ |

| relation's attribute name ▼ |

WITH

| relation name ▼ |

| relation's attribute name ▼ |

DIVIDE ✓

VOLLEYBALL DATABASE

INSERT   DELETE   UPDATE   SELECTION   PROJECTION   JOIN   DIVISION

AGGREGATION GROUP BY   AGGREGATION HAVING   NESTED AGGREGATION

note: not learned
yet but will be
implemented

AGGREGATE ✓

VOLLEYBALL DATABASE

Relation Name

attributes			

VIEW