

CPSC 304 Project Cover Page

Milestone #: 3

Date: 2025.03.12

Group Number: 90

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Alexi Manning	58046186	l0g8p	aleximanning7@gmail.com
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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

Brief Summary of the Project

This database models the elements of the game Minecraft, including blocks, players, achievements, worlds, and servers. It models how the quantity of different types of objects like blocks, recipes, and mobs may change over time as a player plays in a world. It also represents how a world itself may also be part of a larger server, hosted by certain players and enjoyed by other players.

Timeline of the Project

Assignments:

Alexi (Purple)

Livia (Blue)

Yoobeen (Pink)

All (White)

Deadlines:

EOD March 24 (Red) — SQL structure deadline

EOD March 31 (Orange) — Code and GUI implementation deadline

10PM April 2 (Yellow) — Documentation, deliverables, and Milestone 4 submission deadline

Tasks:

Task + Details	Member
SQL Structure Deadline – EOD March 24	
Create 1 sql script file (DROP TABLE at beginning of file, contains enough data for testing and demo, no GUI button required to initialize script setup)	ALL
Code and GUI implementation Deadline – EOD March 31	
Implement INSERT on one relation that contains foreign key	Alexi
Specify INSERT input values in GUI	Alexi
Handle case where foreign key of inserted tuple does not exist in GUI (error message or insert tuple in other table)	Alexi
Implement UPDATE on one relation with 2 non-primary key attributes and 1 of non-primary key attribute with UNIQUE constraint or foreign key	Yoobeen
Display tuples in GUI that users can UPDATE	Yoobeen
Implement DELETE on one relation (should be ON DELETE CASCADE)	Livia
User chooses values to delete in GUI (inputting primary key of tuple, selecting from list of tuples, etc.)	Yoobeen
Implement SELECT on one relation	Alexi
Support any number of AND/OR clauses/combinations of attributes in GUI; AND/OR clauses should be implemented as dropdowns	Alexi
Implement PROJECT on one relation	Livia

Support viewing any number of attributes in GUI	Livia
Implement JOIN between at least 2 relations	Yoobeen
User must provide at least one WHERE clause in GUI	Yoobeen
Implement AGGREGATION WITH GROUP BY (can be hardcoded)	Alexi
Provide interface (button, dropdown, etc.) to execute with GROUP BY in GUI	Alexi
Implement AGGREGATION WITH HAVING (can be hardcoded)	Livia
Provide interface (button, dropdown, etc.) to execute with HAVING in GUI	Livia
Implement NESTED AGGREGATION WITH GROUP BY (aggregation occurs in each nested query, GROUP BY only needs to occur in 1; can be hardcoded)	Yoobeen
Provide interface (button, dropdown, etc.) to execute NESTED in GUI	Yoobeen
Implement DIVISION (can be hardcoded)	Livia
Provide interface (button, dropdown, etc.) to execute DIVISION in GUI	Livia
Sanitization (encryption not required)	Yoobeen
Miscellaneous error handling notifications in GUI (e.g. inserting duplicate value, invalid input data type, etc.)	ALL
GUI notifications about success/failure of INSERT, DELETE, UPDATE and can verify success in GUI	ALL
List of needed SQL queries and where they can be found in code (file name and line number(s))	ALL
For AGGREGATIONS and DIVISION, copy of SQL queries and 1-2 sentences describing what each does	ALL
Documentation, deliverables, and Milestone 4 Deadline – EOD April 2	
Submit Milestone 4 deliverables (cover page, sql script file, and pdf file with repository link)	Livia
Short description of final project and what it accomplished	Yoobeen
Description of how final schema differed from initial schema and why (IF APPLICABLE)	Alexi
Copy of schema and screenshots showing data in each relation after SQL initialization (can be modeled in pdf of excel spreadsheet)	Alexi
README file in repository that provides extra information or “No extra information”	Livia
Milestone 6 peer and self-evaluation (EVERYONE MUST DO)	ALL