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 (condition can be simple "=" equality)	Alexi	

Support any number of AND/OD plauses/sembinations of attributes in CLU.	Alexi	
Support any number of AND/OR clauses/combinations of attributes in GUI; AND/OR clauses should be implemented as dropdowns (can implement "+" button to "add condition" and drop down that specifies whether to connect with AND or OR)	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