

Data Build Task

After creating the tables in Excel, I downloaded MySQL and MySQL Workbench, where I wrote the SQL script to create the database to manage the tables created above. I initially defined the main tables, which were Students2, Course, CourseTeachers, and ExamBoard, and added all the data to each table. Then, I created the relational tables to manage the relationships between students and courses, courses and teachers, and courses and exam boards.

After creating the database, I also created some control queries, in particular, to check for duplicates in each relational table, to check for students that do not exist in the Students2 table, and to check for exam boards that do not exist in the ExamBoard table. I also checked whether there were any non-existent courses in Student_Course, Course_Teacher, and Course_ExamBoard.

Finally, I used the JOIN command to visualize the relationships between students, courses, teachers, and exam boards.

In conclusion, the database was efficiently created, the relations among the tables were verified, and after running all the control queries, the integrity of the data was ensured.