

## **Short Report**

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**Topic: Railway stations**

As a team we understood how important it is to start planning the project before actually writing any code. The ERD was a great help later on when we needed to start writing DDL, DML commands and queries.

This project helped us understand how to implement real-life business solutions in our DB system. We understood how to manage a railway management system such as train schedules, ticketing, and travel history, keeping the information relevant by updating it with triggers and so on. So we explored and implemented triggers, as it is important to prevent wrong inputs, such as trying to book an already taken seat, updating ticket prices when someone adds a ticket leg, etc.

We used a lot of CREATE, INSERT, SELECT, UPDATE statements which made us feel more confident while writing SQL code. It was a great experience to see the whole application come together little by little. It also made I appreciate the work of which is done when people create databases, as it is not just storing data, but doing it correctly and in an efficient manner.

And as we also implemented a UI, it was very important to see how a database interacts with a real application and how it is possible to create a communication between the UI, the backed and the database.

Some tips for running the project.

1. Configure the database connection
2. Run all the SQL files in pgAdmin
3. You need to have .NET6 or newer version on your computer
4. Open the RailwayStationManagement Solution in IDE
5. Make sure all packages are installed
6. Make sure to have correct database credentials written in appsettings.json
7. Hit the run button in your IDE