

Modellierung

Name: \_\_\_\_\_

Practice

Class: \_\_\_\_\_

Train

Date: \_\_\_\_\_

#### Railway Company RailJetXpress

The European railway company RailJetXpress operates an extensive network of train connections between cities in various countries. To better manage operations, a relational database is to be developed. Your task is to design a suitable data model.

Please consider the following requirements:

The company owns a variety of trains of different types, such as Railjet, InterCity, or Nightjet. Each train has a unique train number, a type, and a specific number of seats.

The trains run on defined routes, each consisting of a starting and an ending station. Each route is associated with an approximate total duration. The stations are train stations located in various cities and countries, and can appear multiple times – as the start or end of a route or as intermediate stops during a journey.

For each specific journey of a train on a given route and date, a timetable is created. This timetable indicates which train travels on which route on a specific date.

In addition, there is a detailed timetable schedule, specifying when the train arrives at and departs from each station along the route. It is also recorded whether the train stops at a station or just passes through.