

# PROBLEM STATEMENT

The following database system is designed to manage information about routes supported by the buses running in North-West India.

Each route served is uniquely identified by a route id and has a name, a source stop and a destination stop. A route can have several intermediate stops each stop having a stop id and a name.

Two routes may have same source, destination and intermediate stops but in such a situation, the order of intermediate stops will be different. No bus passes through the same stop more than one time in its route.

On purchase of a bus, it is assigned a unique registration number which will act as its identification and its capacity, model, and various features are recorded.

Each bus has two employees- a driver and an assistant who are assigned to the bus for the day. All the employees registered should have a bus assigned to them.

An employee can work for only one bus but a bus can have different employees for different days of the week.

When an employee is registered, a unique emp id is provided for identification and his name and date of birth in the yyyy-mm-dd format are stored. The driver needs to provide a license number also.

The minimum age requirement for the driver is 25, whereas that for an assistant is 20.

A bus can have different departure time on different days of the week.

One bus is assigned to one route only while a route can be served by multiple buses.

There is no bus not running on any route.