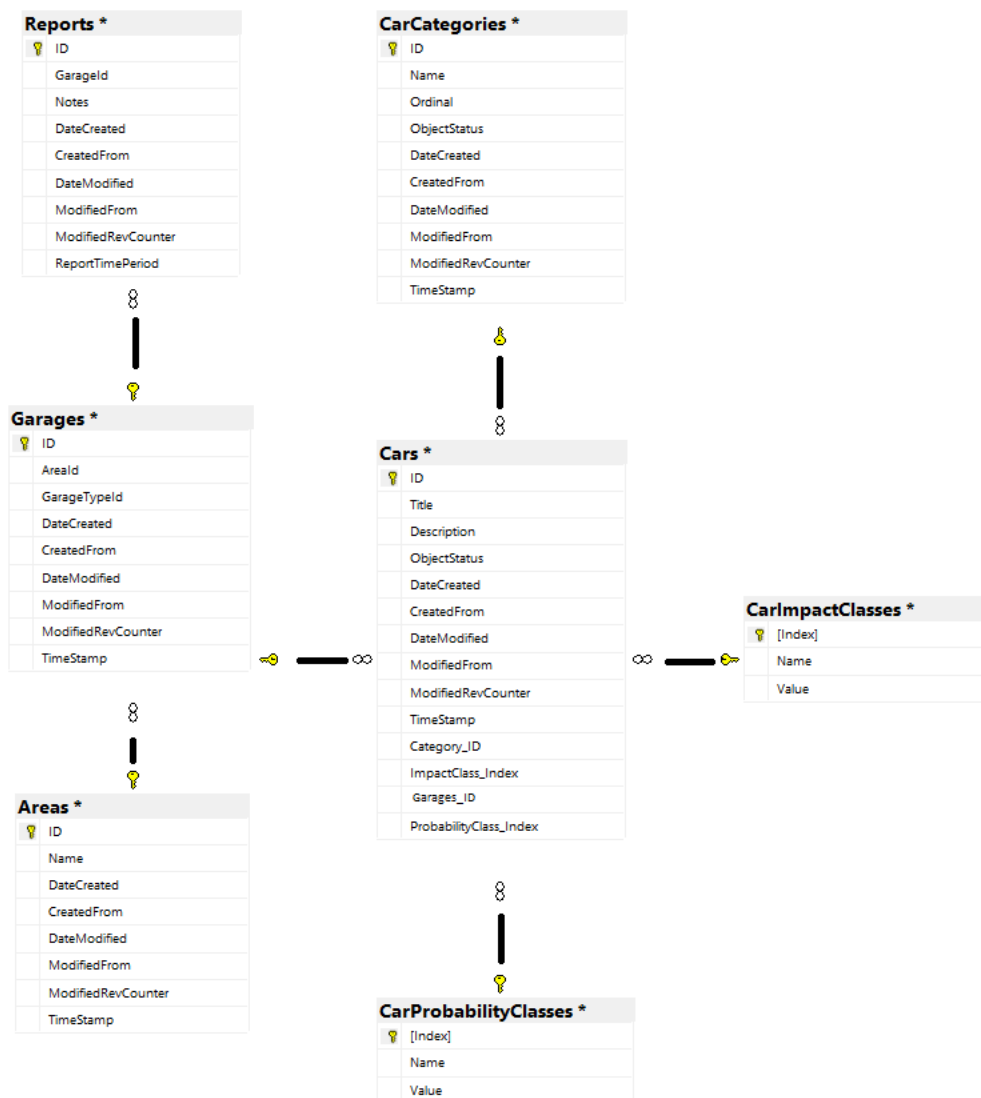The assignment is about creating a CRUD service for cars. In the picture below you can see the db diagram. There are cars, which belong to a garage and they have properties like CarCategory, CarImpactClass and CarProbabilityClass. As arguments for the CRUD operations you get the garage and/or the cars. It is important to make useful checks when updating the cars of a garage.

Reports *
- 🔑 ID
- GarageId
- Notes
- DateCreated
- CreatedFrom
- DateModified
- ModifiedFrom
- ModifiedRevCounter
- ReportTimePeriod

CarCategories *
- 🔑 ID
- Name
- Ordinal
- ObjectStatus
- DateCreated
- CreatedFrom
- DateModified
- ModifiedFrom
- ModifiedRevCounter
- TimeStamp

Garages *
- 🔑 ID
- AreaId
- GarageTypeId
- DateCreated
- CreatedFrom
- DateModified
- ModifiedFrom
- ModifiedRevCounter
- TimeStamp

Cars *
- 🔑 ID
- Title
- Description
- ObjectStatus
- DateCreated
- CreatedFrom
- DateModified
- ModifiedFrom
- ModifiedRevCounter
- TimeStamp
- Category_ID
- ImpactClass_Index
- Garages_ID
- ProbabilityClass_Index

CarImpactClasses *
- 🔑 [Index]
- Name
- Value

Areas *
- 🔑 ID
- Name
- DateCreated
- CreatedFrom
- DateModified
- ModifiedFrom
- ModifiedRevCounter
- TimeStamp

CarProbabilityClasses *
- 🔑 [Index]
- Name
- Value

Since software quality is very important for us, it would be interesting how you would make sure that this service is working correctly. Please write tests to cover the functionality.

In time periods a report is created for an area. An area can have multiple garages.

You could render for a specific area the cars grouped by report time periods (RepordTimePeriod) of the reports in Angular.