

## **ASSUMPTIONS**

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1. Between MODEL and ENGINE entities there is a Many to Many relationship.  
1 Model can accommodate many engines and 1 engine can be accommodated in many models.

Hence adding the bridging entity of ACCOMMODATE between MODEL and ENGINE.

This ACCOMMODATE contains the model\_name and the engine\_type

2. For the below entity-

LICENCE\_TYPE(driver\_licence\_no, licence\_type)

To make the design simpler, I have added another Entity called VEHICLE\_TYPE which will store the Vehicle type code and the Vehicle type name. This will get connected to the VEHICLE entity to display its vehicle\_type\_code and will also get connected to the LICENCE\_TYPE entity to display the licence type along with the driver licence no.

So the resulting will be-

VEHICLE\_TYPE(vehicle\_type\_code, vehicle\_type\_name)

VEHICLE(VIN, vehicle\_type\_code, model\_name, vehicle\_manf\_year, vehicle\_color)

LICENCE\_TYPE(driver\_licence\_no, vehicle\_type\_code)

3. For the entity-

CANCEL\_REPORT(driver\_licence\_no, driver\_fname, driver\_lname)

The information can be derived from the entity DRIVER hence we do not have to display it again

4. For the entities-

CANCEL(driver\_licence\_no , cancel\_date, *cancel\_reason*)

And

COURT\_HEARING(driver\_licence\_no, cancel\_date, *cancel\_reason*,  
*cancel\_court\_date*, *cancel\_licence\_renew\_date*)

We can merge the both into one entity, hence the resulting entity will be-

CANCELLATION(driver\_licence\_no, cancel\_date, *cancel\_court\_date*,  
*cancel\_licence\_renew\_date* , *cancel\_reason*)

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5. The surrogate key has been added in the entity CANCELLATION. This entity had a composite PK i.e. driver licence no, cancel date. Both these attributes have different data types. Hence to make the design simpler and identify the cancellation by a code/id, I have added a surrogate key called cancel\_id.

6. A lookup entity has also been created called VEHICLE\_TYPE. This contains the type of vehicle which is same as the type of licence, eg car, motorcycle, etc. This entity will contain the code and name of such type of vehicles.

7. Suspension end date is always 6 months more than the suspension start date. Hence I have taken that also as an assumption. This is used in the entity SUSPENSION\_DATE

8. Reason for the cancellation of the licence can be used to derive the duration of the cancellation. Hence this assumption is used to create another entity CANCEL\_DURATION.