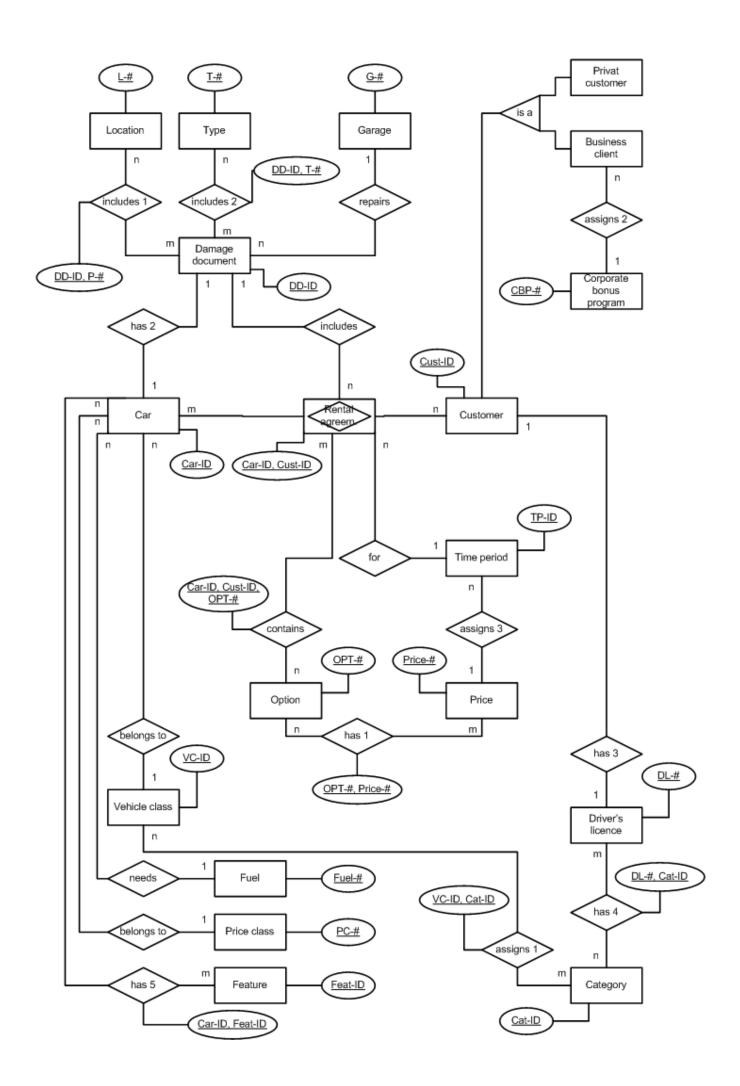
Car rental service

Source: Designed by Gerhard Pokorny

Transfer the following verbal description into an ERM:

- a) A car rental service rents (rental agreement) its cars (Car-ID) to the customers (Cust-ID), who can be private customers or business clients.
- b) Each customer has a driver's licence (DL-#) with one or more categories (Cat-ID). These categories allow the person to drive certain vehicle classes (VC-ID).
- c) Special corporate bonus programs (CBP-#) exist for business clients. These business clients can be assigned to one of these programs.
- d) Each car belongs to one vehicle class, needs a certain fuel (Fuel-#) and belongs to a specific price class (PC-#).
- e) These cars have different features (Feat-ID) (e.g. ESP, ABS ...).
- f) The vehicle is available for rentals for a specified time period (TP-ID). There are fixed prices (Price-#) for several periods (e.g. price per day, price per week).
- g) The rental agreement contains several options (e.g. type of insurance, chauffeur etc.) The client can choose from these options (OPT-#). The prices of the different options may change, depending on the rental period (TP-ID).
- h) Each car has a damage document (DD-ID). In this document, the location (L-#) and the type (T-#) of damage has to be noted. The rental agreement includes the damage document. The car rental firm will have an agreement with several specialized garages (G-#) to repair any damages noted in the damage document.



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Car-ID	PC-#	Fuel-#	VC-ID	DD-ID	

has 4

Fuel

<u>DL-#</u>	

Rental agreemant

Car-ID	Cust-ID	DD-ID	TP-ID	

Customer

Time period

Cust-ID	CBP-#	DL-#	Type	

Category

<u>Cat-ID</u>	

Cat-ID	
	<u>Cat-ID</u>

VC-ID	Cat-ID	

Vehicle class

VC-ID	

Fuel-#	

TP-ID	Price-#	

Feature

assigns 1

has 5

<u>Car-ID</u>	<u>Feat-ID</u>	

Pr	ice	C	а	59

<u>PC-#</u>	

Feat-ID	

has 1

Option

<u>OPT-#</u>	

Car-ID	Cust-ID	OPT-#	

<u>OPT-#</u>	Price-#	

includes 1

DD-ID	<u>P-#</u>	

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1110	uu		_

DD-ID	<u>T-#</u>	

DD-ID	G-#	

Damage document

Location

<u>L-#</u>	

Туре

Corporate bonus program

<u>T-#</u>	

CBP-#	