

# ERD Extra Exercise 1

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## ERD Extra Exercise 1

1. Draw a Top-Down ERD to deal with the below written description of Conman Insurance. If there is any ambiguity in the description then you should make assumptions you consider reasonable, using notes to clarify how you have interpreted the description.
2. Identify the data in the Conman Car Insurance Purchase Form, and normalise it to 3rd Normal Form (3NF) showing each of the intermediate stages.
3. Draw a Bottom-up ERD from the normalised data for the car insurance form.

### Conman Insurance

Conman Insurance is an insurance company offering a wide range of different types of insurance such as motor, life, marine, accident, permanent health and legal expenses.

The company has a range of products and can package several of these together to form an individual policy, which is sold to a policy holder. For example, a motor insurance policy might consist of a permutation from products such as: windscreen cover, fully comprehensive, third party, fire, theft, etc. Each policy relates to only one policy holder, but a policy holder can have many different policies. A product falls into one of six business types.

The policies are sold on behalf of Conman Insurance by brokers, on a commission basis. Sometimes brokers collaborate so that a policy can have commission payable to more than one broker. Also, in order to limit risk, a policy may be placed - in whole or in part - with a number of different reinsurers.

Conman holds a lot of information about clubs and associations, for marketing purposes. A policy holder may belong to none, one or several such clubs.

Claims are made against policies. An individual claim falls into one of four claim categories. A claim is only ever made against one policy, but a policy can have any number of claims made against it.

As well as accessing policies by policy number, Conman also needs to be able to find out which policies are due for renewal on a certain date.

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ConMan Insurance Ltd				CAR INSURANCE - FORM CM20			
ConMan House, 11 High St, Smallville, SJ2 7MY				Vehicle Registration No AS13JVC		Policy No AD6113497	
Insured Name and Address Jane Simple 16 Trent Rd Tinyton Manchester, M96 8NN				Policy Period 1-Jul-13 to 30-Jun-14		Broker Arthur Daley	
BrokerID AD682							
Description of Vehicle							
MON	YEAR	MAKE	MODEL	COLOUR	TYPE	MILEAGE	
05	2010	FORD	FOCUS	WHITE	HATCHBACK	27548	
The location where the vehicle is kept is:				On road	Driveway	Garage	Business
16 Trent Rd, Tinyton, Manchester, M96 8NN				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRODUCT	DESCRIPTION					EXCESS	PREMIUM
The policy provides ONLY the following coverage							
Part I – Liability							
1-8212	Injury Option 1 - £10,000					£500	£148.00
Part III – Legal Cover							
3-1002	Option 1 - £30,000					£200	£43.80
Part IV – Physical Damage Coverage							
4-2011	Comprehensive loss					£500	£232.00
4-4066	Rental car						£48.00
(Refer to attached schedule for detailed coverage information)							
Total premium payable (inclusive of Insurance premium tax)							<b>£471.80</b>

Fig 1: Conman Insurance Car Insurance form