

# ERD Extra Exercise 1

## ERD Extra Exercise 1 – Suggested Solution

### Extra Exercise 1 – Conman Insurance

#### Task 1 – ERD

The following, Fig. 1, is a first stage ERD for Conman Insurance - with m:n relationships. Fig. 2 shows the final ERD with these relationships resolved.

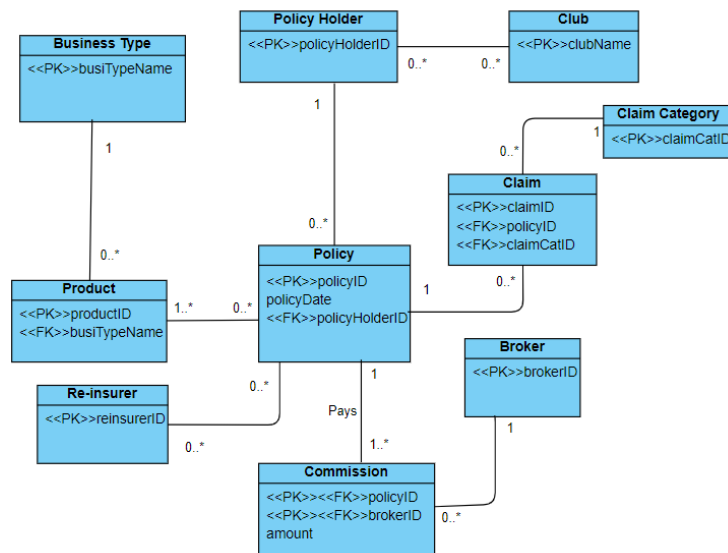


Fig 1. (above) ERD for Conman Insurance - with m:n relationships.

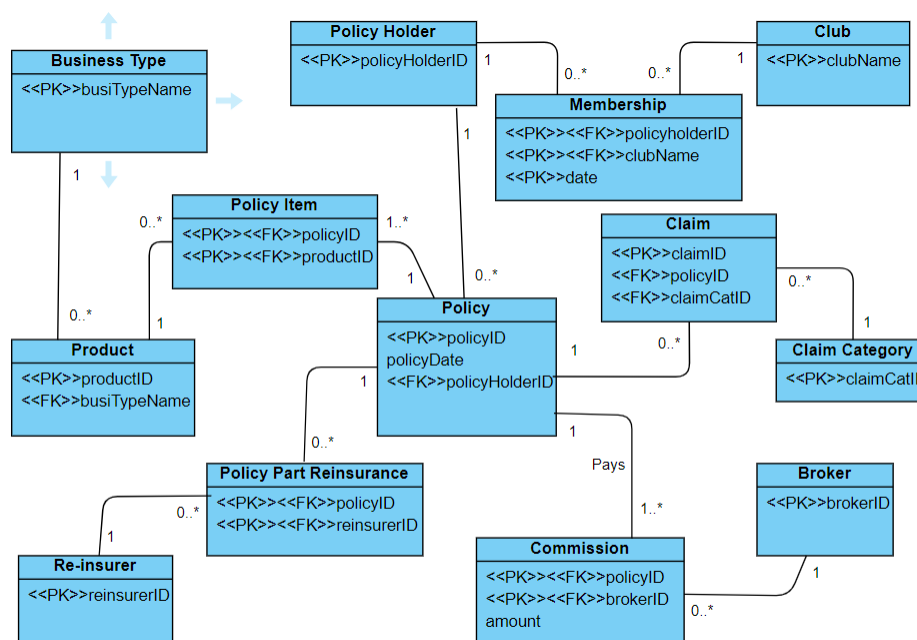
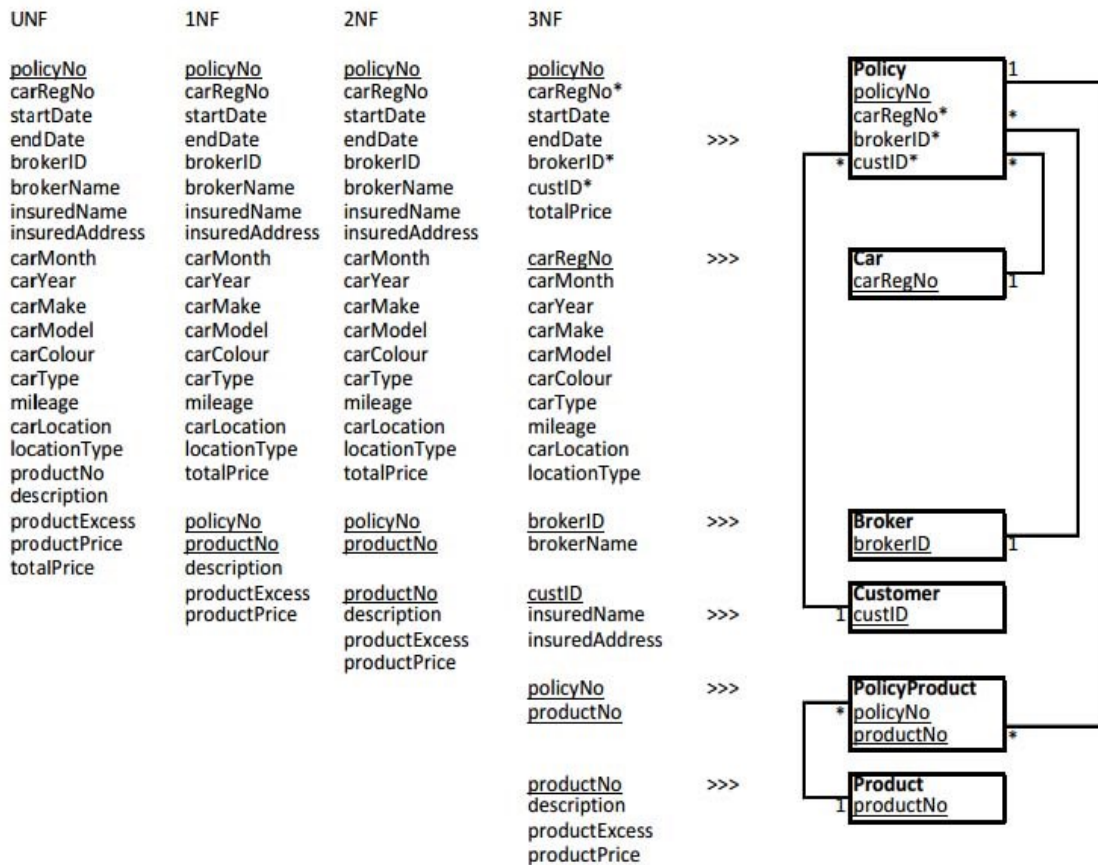


Fig 2. (above) Final ERD for Conman Insurance. (Note that Policy Part Reinsurance entity might possibly be replaced with the Policy Item entity depending upon how the company deals with reinsurance.)

# ERD Extra Exercise 1

## Tasks 2 & 3 – RDA – Car Insurance form



Note the following assumptions have been made: 1 car per policy; 1 price per product

Note that total price is a derived attribute (from all productPrices associated with a policy) and would not need to be stored.

Note comparisons to top-down diagram from task 1:

- PolicyProduct is the same as Policy Item
- Policy holder and customer are the same
- The car insurance form does not have anything about commission and so the possible many-to-many relationship between policy and broker is not discovered from the car insurance form, and is only available by looking top-down or at other forms not given here
- Car reg is not on the top-down diagram because particular types of insurance have not been considered in detail from the top-down perspective (they are not detailed in the written scenario)