Ukeoppgaver uke 3 (5.sep - 12.sep)

Problem 1.
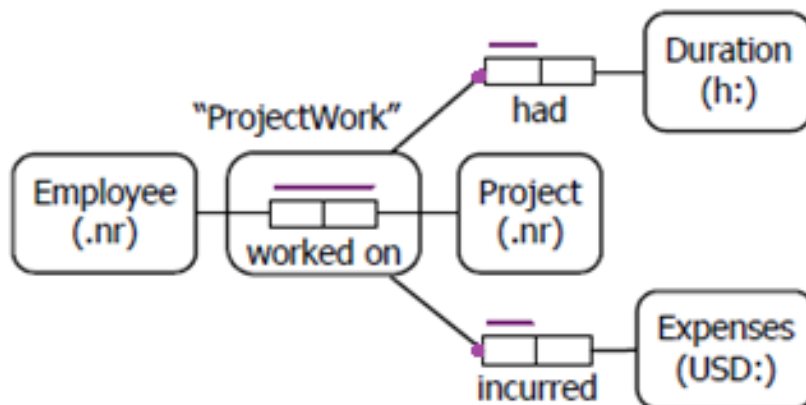
(a) AB, AC (b) AB, AC, BC (c) ABC (d) AC

Problem 2.

Create an ORM2 model corresponding to the following output report.

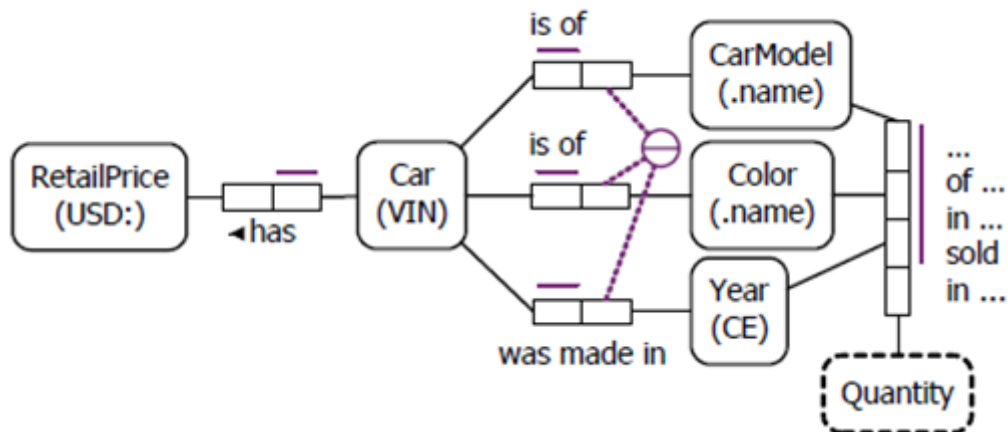| Employee	Project	Hours	Expenses
E4	P8	24	400
E4	P9	26	300
E5	P8	14	200
E5	P9	16	220
E6	P8	16	240
E6	P9	14	220

<mark>Solution</mark>

Problem 3.

A car dealer maintains a database on all the cars in stock. Each car is identified by the vehicle identification number (VIN) displayed on a plate attached to the car (e.g., on its dashboard). For each car the dealer records the model (e.g., Saturn SW2), the year of manufacture (e.g., 2006), the retail price (e.g., $18,000), and the color (e.g., dark green).

Because of space limitations the dealer will never have in stock more than one car of the same model, year, and color at the same time. The dealer also keeps figures on the number of cars of a particular model and color that are sold in any given year. For example, in 2007, five dark green Saturn SW2s were sold.

Draw the conceptual schema diagram, including all uniqueness constraints.

Solution

(*Note*: This schema does not allow to record history about specific cars formerly in stock).

Problem 4.

Vi skal modellere medlemskap i foreninger og hvor mye medlemmene betaler i kontingent. En person kan gjerne være medlem av flere foreninger. Og det er ikke nødvendigvis slik at alle medlemmer i en forening betaler samme kontingent: for eksempel kan kontingenten avhenge av hvor gammel du er eller om du betaler for et halvt eller et helt år av gangen. Tegn først en ternær faktatype med de tre begrepene Person, Forening og Beløp og bestem hvilken/hvilke entydighetspiler som gjelder. Lag deretter et nytt begrep Medlemskap og vis hvordan modellen da skal se ut.

Solution