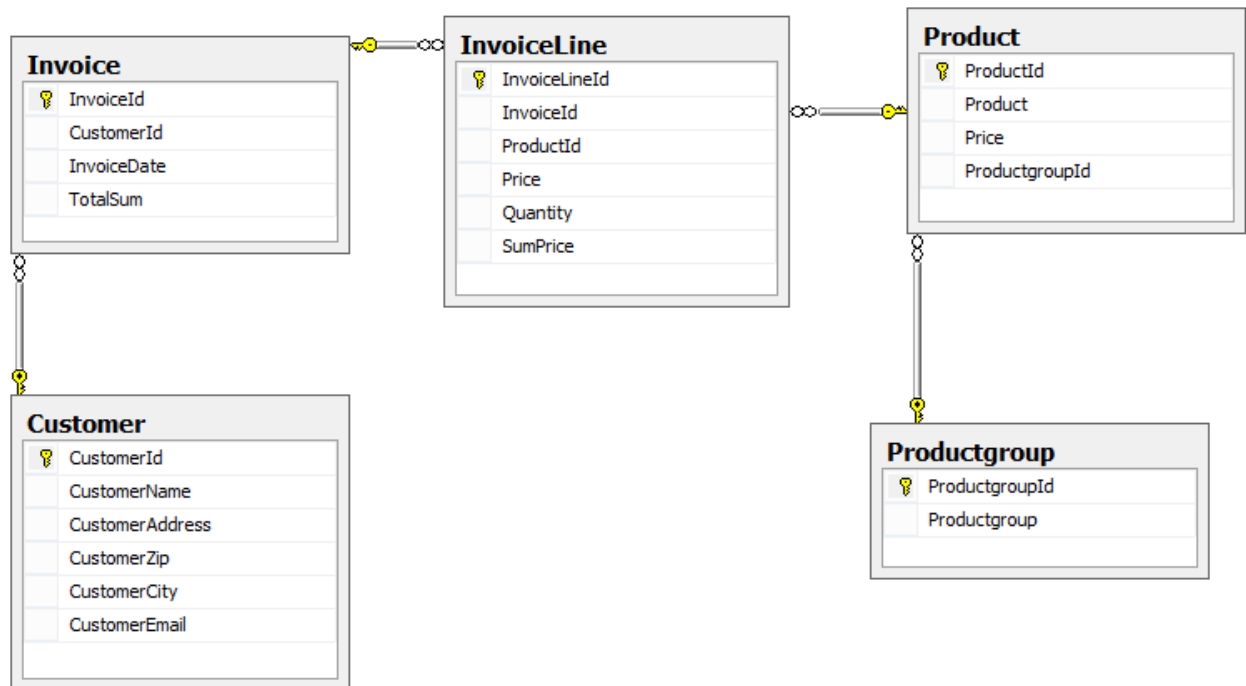# ER Diagram for webshop

Assignment 1

The webshop needs to have a basket feature. How would you modify the ER diagram to meet the following requirements?

- A user do not have to be logged in in order to put products into the basket.
- If a user is not logged in, another identification is used (i.e. session id).
- Once a day a maintenance script runs through the baskets. If a basket is inactive (no activity the last hour) the basket will have the status inactive. All baskets are stored for the purpose of site statistics.

Assignment 2

It shall be possible to maintain a hierarchy of the product groups. A 1st level main product group (i.e. Lyd ~ Sound Equipment) holds a number of 2nd level sub groups (i.e. Diktafon, Mikrofon, etc.). The sub groups can hold a number of 3rd level sub sub groups (i.e. the 2nd level sub group "Headset & Hovedtelefoner" holds the 3rd level sub sub groups "Fastnet headset", "Hovedtelefoner" and "PC headset").

What changes to the ER diagram are needed for the database design to meet the requirements?

Assignment 3 (extra - for the quick)

Implement the Product and Productgroup tables in a database (or adjust an already existing database that contains these two tables). Populate the Productgroup table with the 3 levels of groups from the picture above.

Then make a SELECT where you get a result set showing what product groups are on the 1st level, what product groups are on the 2nd level and so on.

	Level1Productgroup	Level2Productgroup	Level3Productgroup
1	Sound	Dictaphone	NULL
2	Sound	Microphone	NULL
3	Sound	Headsets	Wired headsests
4	Sound	Headsets	Headphones
5	Sound	Headsets	PC headsets
6	Sound	Loudspeakers	NULL
7	Keyboard	NULL	NULL