

INFSCI 2710 \Database Management" | Homework # 3: ER-Model (Advanced) |

Exercise 3

12 Points

Suppose we want to develop a database for a grocery store chain. Since this is a large task, we will concentrate here on modelling the sales data, and especially the sales checks. Please develop an entity-relationship schema containing the following information:

The chain has several stores. Every store has a unique number. We also need the address of each store. The address consists of street address, city, and ZIP-code.

Each store has several check-outs. Every check-out has a number, however, this number is only unique within the store.

Next, we want to model sales checks. Each sales check has a timestamp (date, hour, minute, second). Again, the timestamp is only unique for a single check-out.

Some sales-checks are for known customers (because they used their customer card to get 1% of their total sales at the end of the year). We want to store the customer card number, the name and address for each such customer. The address consists of street address, city, and ZIP-code (as above). Some customers can use their customer card like a credit card. We have to store a credit limit for such customers.

We want to store the product code (identifying number) of each ware/item in our store, plus a short description.

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