

Databasmodellering

BuckStar

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Introduktion

En databasmodell av en eshop enligt kokboken [1].

Konceptuell modellering (kmom03)

Beskriv databasen i ett textstycke

The database needs to handle a **customer register** (customers with contact details), a **product register** (products with product code, name, short description and price) where each product is in one or more product categories.

The database also needs to contain a **warehouse** where you can see how many of each product are in the warehouse and a record of where the product is located in the warehouse (which shelf). One and the same product can be spread over different shelves in the warehouse.

When the **customer** orders a product, an order is created that contains the customer's details along with the products ordered and the quantity ordered.

Based on the order, a **pick list is created** that can be sent to the warehouse for delivery. The pick list contains the same information as the order, but with the addition that each product line is mapped to a warehouse shelf so that the warehouse staff can see which shelf they can pick up the product on.

When the delivery is packed, an **invoice** is attached that has the same content as the order but now with the price per product line and the total price.

There should be a **log** where you can see important events in the system, what happened, when it happened. For example, it could be when an order/invoice was created or deleted.

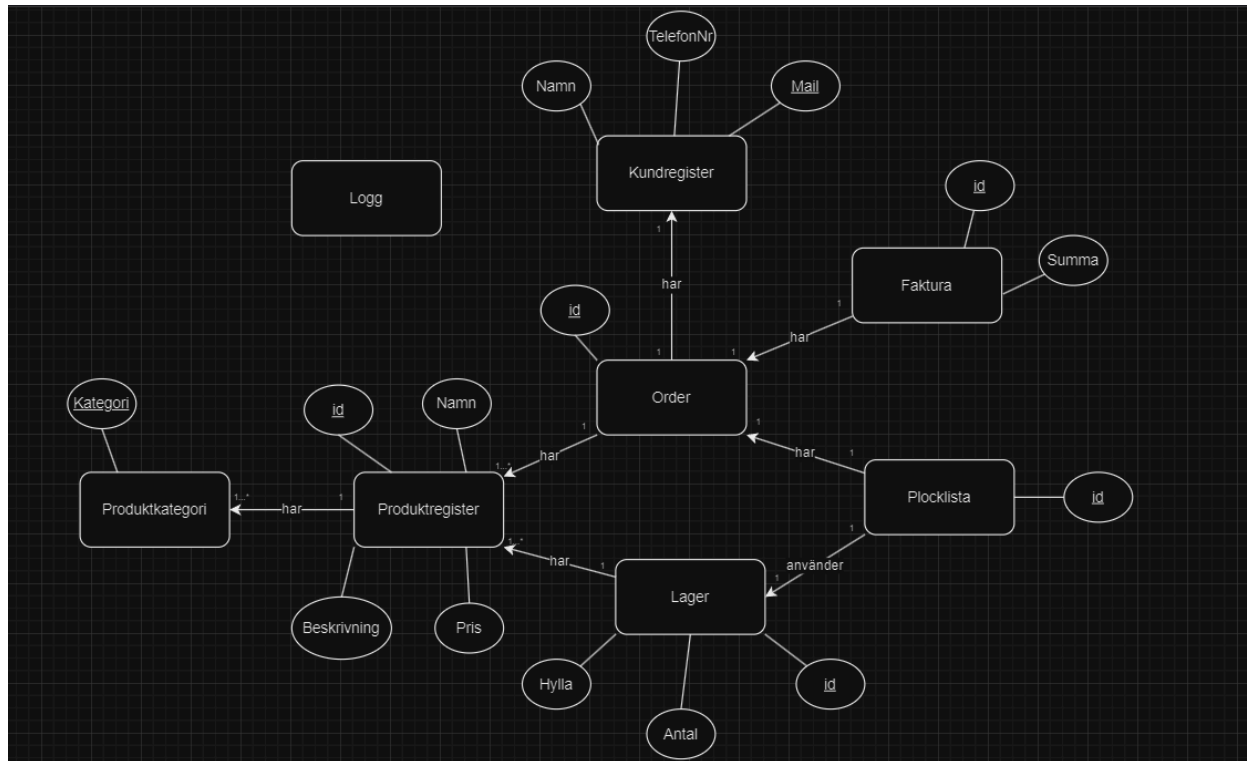
Write down all entities

- **Customer register**
- **Product register**
- **Product category**
- **Warehouse**
- **Order**
- **Pick list**
- **Invoice**
- **Log system**

Alla relationer i matris

Entiteter	Kund register	Produkt register	Produkt kategorier	Lager	Order	Plocklista	Faktura	Logg
Kund register								
Produkt register			har					
Produkt kategori								
Lager		har						
Order	har	har						
Plocklista				Använder	har			
Faktura					har			
Logg								

ER-diagram



Logisk modellering (kmom04)

Modifiera ER-diagram enligt relationsmodellen

Utöka ER-diagram med primära/främmande nycklar samt kompletterande attribut

Fysisk modellering (kmom04)

Skapa SQL DDL för tabellerna

Lista funktioner som databasen skall stödja (API)

APPENDIX DDL

REFERENSER

[1] Kokbok för databasmodellering, <https://dbwebb.se/kunskap/kokbok-for-databasmodellering>, visited 2023-01-31.