Database documentation
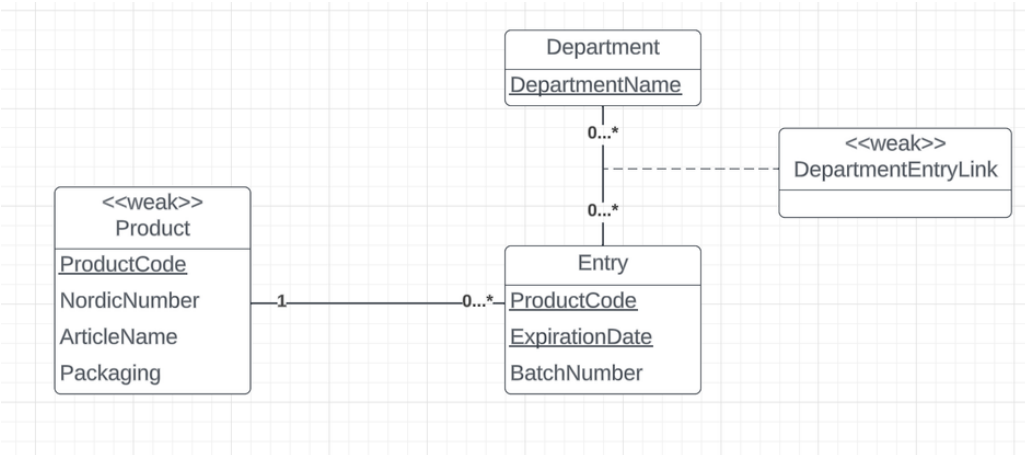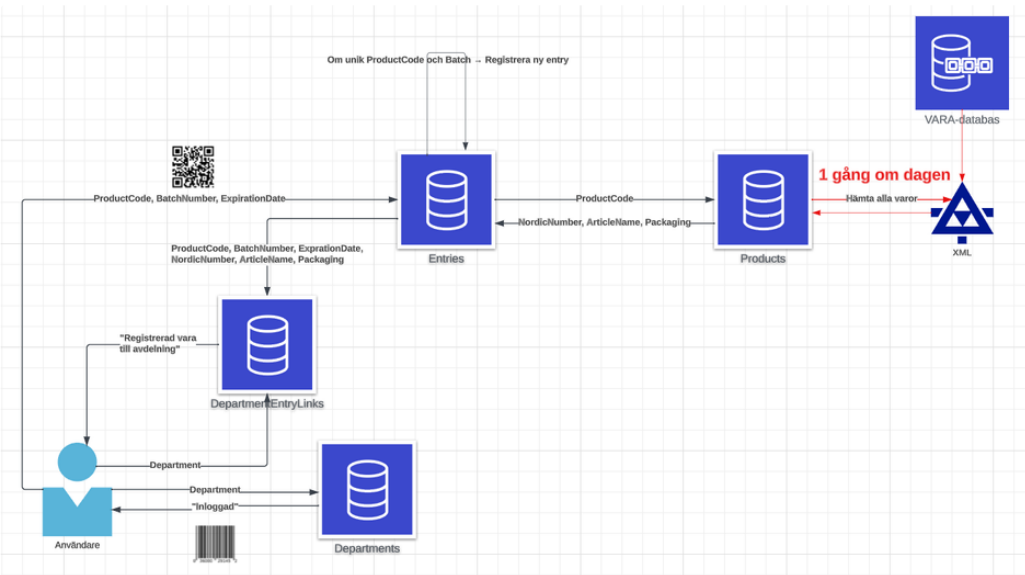

UML diagram - ⬡ Region Skåne 2 | Lucidchart

Example context diagram- Context diagram:
The user scans a department code, after which the user scans a QR code

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Relations 🔗

> ℹ️ Primary keys are marked with <u>underline</u>.
>
> Foreign keys are marked *cursive*.

Departments(<u>DepartmentName</u>)

Entries(*<u>ProductCode</u>*, <u>ExpirationDate</u>, BatchNumber)

Products(<u>ProductCode</u>, Packaging, NordicNumber, ArticleName)

DepartmentEntryLinks(*<u>ProductCode</u>*, *<u>ExpirationDate</u>*, *<u>DepartmentName</u>*)

Tables 🔗

⚠️ NordicNumber in the database is equivalent to 'varunummer'

```sql
CREATE TABLE Departments (
    DepartmentName VARCHAR(255) PRIMARY KEY
);
CREATE TABLE Products (
    ProductCode VARCHAR(255) PRIMARY KEY,
    Packaging VARCHAR(255),
    NordicNumber INT,
    ArticleName VARCHAR(255)
);
CREATE TABLE Entries (
    ProductCode VARCHAR(255),
    BatchNumber VARCHAR(255),
    ExpirationDate DATE,
    PRIMARY KEY (ProductCode, ExpirationDate),
    FOREIGN KEY (ProductCode) REFERENCES Products(ProductCode)
);
CREATE TABLE DepartmentEntryLinks (
    ProductCode VARCHAR(255),
    ExpirationDate DATE,
    DepartmentName VARCHAR(255),
    PRIMARY KEY (ProductCode, ExpirationDate, DepartmentName),
    FOREIGN KEY (ProductCode, ExpirationDate) REFERENCES Entries(ProductCode, ExpirationDate),
    FOREIGN KEY (DepartmentName) REFERENCES Departments(DepartmentName)
);
```

Triggers 🔗

⚠️ This is yet to be implemented, since triggers cannot be implemented in our current database service.

```sql
DELIMITER //
CREATE TRIGGER RemoveEntryIfNoLinks
AFTER DELETE ON DepartmentEntryLinks
FOR EACH ROW
BEGIN
    DECLARE product_count INT;
    SELECT COUNT(*) INTO product_count
    FROM DepartmentEntryLinks
    WHERE ProductCode = OLD.ProductCode AND BatchNumber = OLD.BatchNumber;
    IF product_count = 0 THEN
        DELETE FROM Entries
        WHERE ProductCode = OLD.ProductCode AND BatchNumber = OLD.BatchNumber;
```

```
    END IF;

END;

//

DELIMITER ;
```