

# Informationssysteme I

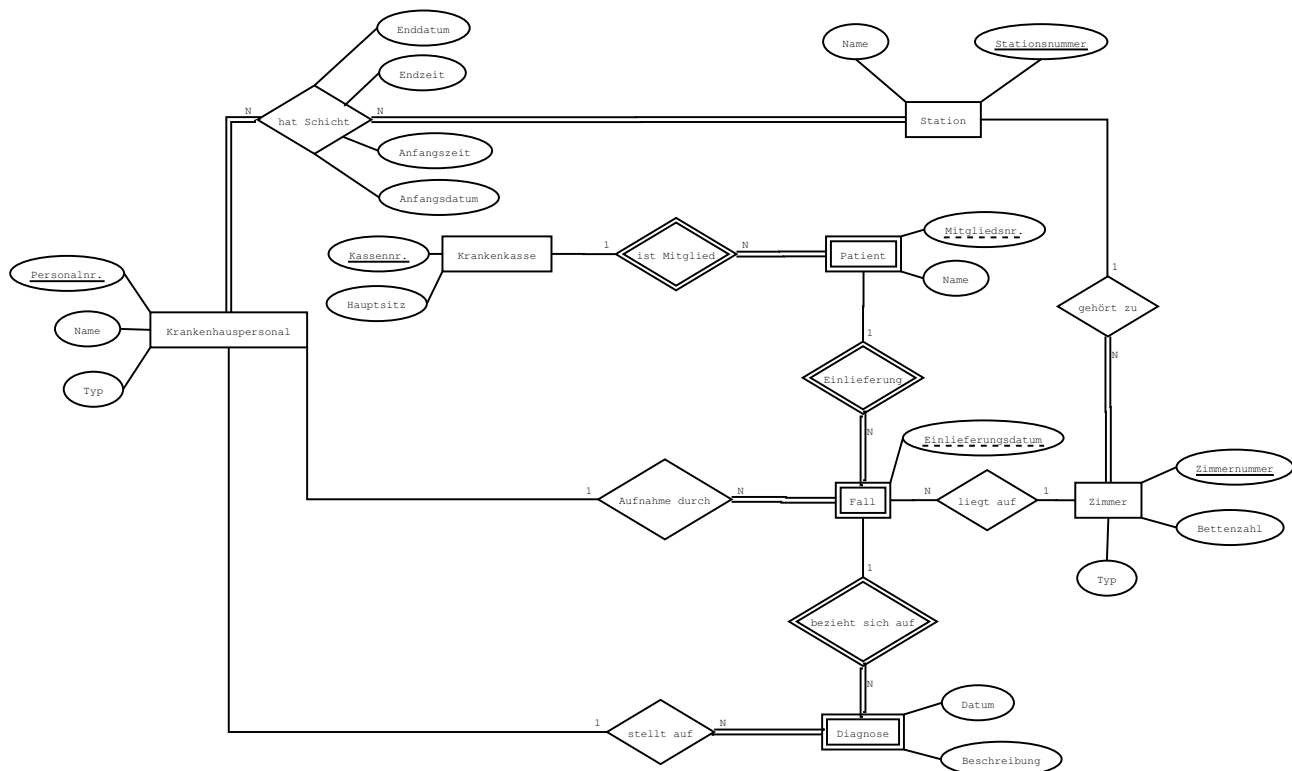
## Übungsblatt 5

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## Aufgabe 1 (SQL DDL) (33 Punkte)

### Schritt 0



### Schritt 1

KRANKENHAUSPERSONAL

Personalnr., Name, Typ

STATION

Stationsnummer, Name

ZIMMER

Zimmernummer, Bettenzahl, Typ

KRANKENKASSE

Kassennr., Hauptsitz

### Schritt 2

KRANKENHAUSPERSONAL

Personalnr., Name, Typ

STATION

Stationsnummer, Name

ZIMMER

Zimmernummer, Bettenzahl, Typ

KRANKENKASSE

Kassennr., Hauptsitz

PATIENT

Mitgliedsnr., Name, Kassennr.

FALL

Einlieferungsdatum, Mitgliedsnr., Kassennr.

DIAGNOSE

Datum, Beschreibung, Einlieferungsdatum, Mitgliedsnr., Kassennr.

### Schritt 3

KRANKENHAUSPERSONAL

Personalnr., Name, Typ

STATION

Stationsnummer, Name

ZIMMER

Zimmernummer, Bettenzahl, Typ

KRANKENKASSE

Kassennr., Hauptsitz

PATIENT

Mitgliedsnr., Name, Kassennr

FALL

Einlieferungsdatum, Mitgliedsnr, Kassennr

DIAGNOSE

Datum, Beschreibung, Einlieferungsdatum, Mitgliedsnr, Kassennr

### Schritt 4

KRANKENHAUSPERSONAL

Personalnr., Name, Typ

STATION

Stationsnummer, Name

ZIMMER

Zimmernummer, Bettenzahl, Typ, Stationsnummer

KRANKENKASSE

Kassennr., Hauptsitz

PATIENT

Mitgliedsnr., Name, Kassennr

FALL

Einlieferungsdatum, Mitgliedsnr, Kassennr, Personalnr, Zimmernummer

DIAGNOSE

Datum, Beschreibung, Einlieferungsdatum, Mitgliedsnr, Kassennr, Personalnr

### Schritt 5

KRANKENHAUSPERSONAL

Personalnr., Name, Typ

STATION

Stationsnummer, Name

ZIMMER

Zimmernummer, Bettenzahl, Typ, Stationsnummer

KRANKENKASSE

Kassennr., Hauptsitz

PATIENT

Mitgliedsnr., Name, Kassennr

FALL

Einlieferungsdatum, Mitgliedsnr, Kassennr, Personalnr, Zimmernummer

DIAGNOSE

Datum, Beschreibung, Einlieferungsdatum, Mitgliedsnr, Kassennr, Personalnr

HAT\_SCHICHT

Personalnr, Stationsnummer, Enddatum, Endzeit, Anfangsdatum, Anfangszeit

### Schritt 6

KRANKENHAUSPERSONAL

Personalnr., Name, Typ

STATION

Stationsnummer, Name

ZIMMER

Zimmernummer, Bettenzahl, Typ, Stationsnummer

KRANKENKASSE

Kassennr, Hauptsitz

PATIENT

Mitgliedsnr, Name, Kassennr

FALL

Einlieferungsdatum, Mitgliedsnr, Kassennr, Personalnr, Zimmernummer

DIAGNOSE

Datum, Beschreibung, Einlieferungsdatum, Mitgliedsnr, Kassennr, Personalnr

HAT\_SCHICHT

Personalnr, Stationsnummer, Enddatum, Endzeit, Anfangsdatum, Anfangszeit

## Schritt 7

KRANKENHAUSPERSONAL

Personalnr, Name, Typ

STATION

Stationsnummer, Name

ZIMMER

Zimmernummer, Bettenzahl, Typ, Stationsnummer

KRANKENKASSE

Kassennr, Hauptsitz

PATIENT

Mitgliedsnr, Name, Kassennr

FALL

Einlieferungsdatum, Mitgliedsnr, Kassennr, Personalnr, Zimmernummer

DIAGNOSE

Datum, Beschreibung, Einlieferungsdatum, Mitgliedsnr, Kassennr, Personalnr

HAT\_SCHICHT

Personalnr, Stationsnummer, Enddatum, Endzeit, Anfangsdatum, Anfangszeit

## SQL

```
CREATE TABLE KRANKENHAUSPERSONAL (
    Personalnr          INT          NOT NULL,
    Name                VARCHAR(20),
    Typ                 INT,

    PRIMARY KEY (Personalnr)
);

CREATE TABLE STATION (
    Stationsnr          INT          NOT NULL,
    Name                VARCHAR(20),

    PRIMARY KEY (Stationsnr)
);

CREATE TABLE ZIMMER (
    Zimmernummer        INT          NOT NULL,
    Bettenzahl          INT,
    Typ                 INT,
    Stationsnummer      INT,

    PRIMARY KEY (Zimmernummer),
    FOREIGN KEY (Stationsnummer) REFERENCES STATION(Stationsnummer)
);

CREATE TABLE KRANKENKASSE (
```

```

    Kassennr          INT          NOT NULL,
    Hauptsitz         VARCHAR(20),

    PRIMARY KEY ( Kassennr)
);

CREATE TABLE PATIENT (
    Mitgliedsnr       INT          NOT NULL,
    Name              VARCHAR(20),
    Kassennummer      INT          NOT NULL,

    PRIMARY KEY ( Mitgliedsnr , Kassennr),
    FOREIGN KEY ( Kassennr ) REFERENCES KRANKENKASSE( Kassennr)
);

CREATE TABLE FALL (
    Einlieferungsdatum DATE          NOT NULL
    Mitgliedsnr       INT          NOT NULL,
    Kassennummer      INT          NOT NULL,
    Personalnr        INT,
    Zimmernummer      INT,

    PRIMARY KEY ( Einlieferungsdatum , Mitgliedsnr , Kassennr),
    FOREIGN KEY ( Mitgliedsnr , Kassennr ) REFERENCES PATIENT( Mitgliedsnr , Kassennr),
    FOREIGN KEY ( Personalnr ) REFERENCES KRANKENHAUSPERSONAL( Personalnr ),
    FOREIGN KEY ( Zimmernummer ) REFERENCES ZIMMER( Zimmernummer)
);

CREATE TABLE DIAGNOSE (
    Datum             DATE,
    Beschreibung       VARCHAR(1000),
    Einlieferungsdatum DATE          NOT NULL
    Mitgliedsnr       INT          NOT NULL,
    Kassennummer      INT          NOT NULL,
    Personalnr        INT,

    PRIMARY KEY ( Einlieferungsdatum , Mitgliedsnr , Kassennr),
    FOREIGN KEY ( Einlieferungsdatum , Mitgliedsnr , Kassennr ) REFERENCES
        PATIENT( Einlieferungsdatum , Mitgliedsnr , Kassennr ),
    FOREIGN KEY ( Personalnr ) REFERENCES KRANKENHAUSPERSONAL( Personalnr )
);

CREATE TABLE HAT_SCHICHT (
    Personalnr        INT          NOT NULL,
    Stationsnummer    INT          NOT NULL,
    Enddatum          DATE,
    Endzeit           DATE,
    Anfangszeit       DATE,
    Anfangsdatum      DATE,

    PRIMARY KEY ( Personalnr , Stationsnummer),
    FOREIGN KEY ( Personalnr ) REFERENCES KRANKENHAUSPERSONAL( Personalnr ),
    FOREIGN KEY ( Stationsnr ) REFERENCES STATION( Stationsnr)
);

```

## Aufgabe 2 (Begriffe) (10 Punkte)

Bei Update-Anomalien handelt es sich um Probleme bei Veränderungen am Zustand der Datenbank, welche durch Redundanzen im Datenbankschema verursacht werden. Bei Update-Anomalien wird zwischen drei Typen unterschieden:

- **Einfügungsanomalien:** Beim Einfügen müssen Werte eingetragen werden, für die durch andere Relationen bereits Werte festgelegt sind. Die Werte des neuen Eintrags müssen diesen entsprechen, damit die Datenbank konsistent bleibt.

Informationen zu Entitäten der modellierten Welt, welche nur implizit in einer anderen Relation der Datenbank modelliert wurden können nicht oder nur schwer eingefügt werden, falls keine passenden Einträge in der zweiten Relation vorhanden sind.

- **Löschanomalien:** Wird das letzte Element einer Relation, welche implizit auch Informationen zu einer zweiten Entität enthält, gelöscht, so gehen allen Information zu dieser zweiten Entität verloren.
- **Modifikationsanomalien:** Wird ein wert einer implizit in einer anderen Relatio modellierten Entität geändert, so müssen alle Zeilen, welche diese Informationen enthalten aktualisiert werden, damit die Datenbank konsistent bleibt.

## Aufgabe 3 - Normalisierung (23 Punkte)

1. Lehrender  $\longrightarrow$  Arbeitsbereich  
Abteilung  $\longrightarrow$  Leitung  
Leitung  $\longrightarrow$  Abteilung
2.
  - Arbeitsbereich lässt sich aus Lehrendem ableiten.
  - Leitung lässt sich aus Abteilung ableiten.
  - oder Abteilung lässt sich aus Leitung ableiten.
3. Es treten Inkonsistenzen auf, wenn in einer Zeile Lehrender aber nicht Arbeitsbereich geändert wird.  
Es treten Inkonsistenzen auf, wenn in einer Zeile Leitung aber nicht Abteilung bzw. Abteilung aber nicht Leitung geändert wird.  
Werden alle Lehrenden einer Abteilung gelöscht, so geht alles Wissen zu diese Abteilung in der Datenbank verloren.

## Aufgabe 4 - Normalisierung II (34 Punkte)

### Erste Normalform

|   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|

[D, B] ----> [A]  
 [E, B] ----> [A]  
 [F, B] ----> [A]  
 [G, B] ----> [A]  
 [D, C, B] ----> [A]  
 [E, C, B] ----> [A]  
 [F, C, B] ----> [A]  
 [G, C, B] ----> [A]  
 [I, C, B] ----> [A]  
 [J, C, B] ----> [A]  
 [K, C, B] ----> [A]  
 [E, D, B] ----> [A]  
 [F, D, B] ----> [A]  
 [G, D, B] ----> [A]  
 [H, D, B] ----> [A]  
 [I, D, B] ----> [A]  
 [J, D, B] ----> [A]  
 [K, D, B] ----> [A]  
 [F, E, B] ----> [A]  
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 [H, G, F, E, D, C, A] ----> [K]  
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 [J, I, H, G, F, E, D, C, B] ----> [K]  
 [J, I, H, G, F, E, D, C, B, A] ----> [K]

## Zweite Normalform

|   |   |   |   |
|---|---|---|---|
| A | B | C | D |
|---|---|---|---|

[D, B] ----> [A]  
 [D, C, B] ----> [A]  
 [A] ----> [B]  
 [C, A] ----> [B]  
 [D, A] ----> [B]  
 [D, C, A] ----> [B]  
 [D, A] ----> [C]  
 [D, B] ----> [C]  
 [D, B, A] ----> [C]

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|

[F, E] ----> [D]  
 [H, E] ----> [D]  
 [I, E] ----> [D]  
 [J, E] ----> [D]  
 [K, E] ----> [D]  
 [G, F, E] ----> [D]  
 [H, F, E] ----> [D]  
 [I, F, E] ----> [D]  
 [J, F, E] ----> [D]  
 [K, F, E] ----> [D]  
 [H, G, E] ----> [D]  
 [I, G, E] ----> [D]  
 [J, G, E] ----> [D]  
 [K, G, E] ----> [D]  
 [I, H, E] ----> [D]  
 [J, H, E] ----> [D]  
 [K, H, E] ----> [D]  
 [J, I, E] ----> [D]  
 [K, I, E] ----> [D]  
 [K, J, E] ----> [D]  
 [H, G, F] ----> [D]  
 [I, H, G] ----> [D]  
 [J, H, G] ----> [D]  
 [K, H, G] ----> [D]  
 [H, G, F, E] ----> [D]  
 [I, G, F, E] ----> [D]  
 [J, G, F, E] ----> [D]

[K, G, F, E] ----> [D]  
 [I, H, F, E] ----> [D]  
 [J, H, F, E] ----> [D]  
 [K, H, F, E] ----> [D]  
 [J, I, F, E] ----> [D]  
 [K, I, F, E] ----> [D]  
 [K, J, F, E] ----> [D]  
 [I, H, G, E] ----> [D]  
 [J, H, G, E] ----> [D]  
 [K, H, G, E] ----> [D]  
 [J, I, G, E] ----> [D]  
 [K, I, G, E] ----> [D]  
 [K, J, G, E] ----> [D]  
 [J, I, H, E] ----> [D]  
 [K, I, H, E] ----> [D]  
 [K, J, H, E] ----> [D]  
 [K, J, I, E] ----> [D]  
 [I, H, G, F] ----> [D]  
 [J, H, G, F] ----> [D]  
 [K, H, G, F] ----> [D]  
 [J, I, H, G] ----> [D]  
 [K, I, H, G] ----> [D]  
 [K, J, H, G] ----> [D]  
 [I, H, G, F, E] ----> [D]  
 [J, H, G, F, E] ----> [D]  
 [K, H, G, F, E] ----> [D]  
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 [K, I, G, F, E] ----> [D]  
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 [K, I, H, F, E] ----> [D]  
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 [K, I, H, G, E] ----> [D]  
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 [G, D] ----> [E]  
 [H, D] ----> [E]  
 [I, D] ----> [E]  
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 [I, H, G, F, E] ----> [K]  
 [J, H, G, F, E] ----> [K]  
 [J, I, G, F, E] ----> [K]  
 [J, I, H, F, E] ----> [K]  
 [J, I, H, G, E] ----> [K]  
 [J, I, H, G, F] ----> [K]  
 [I, H, G, F, E, D] ----> [K]  
 [J, H, G, F, E, D] ----> [K]  
 [J, I, G, F, E, D] ----> [K]  
 [J, I, H, F, E, D] ----> [K]  
 [J, I, H, G, E, D] ----> [K]  
 [J, I, H, G, F, D] ----> [K]  
 [J, I, H, G, F, E] ----> [K]  
 [J, I, H, G, F, E, D] ----> [K]

### Dritte Normalform

| A | B | C | D |
|---|---|---|---|
|---|---|---|---|

[D, B] ----> [A]  
 [D, C, B] ----> [A]  
 [A] ----> [B]  
 [C, A] ----> [B]  
 [D, A] ----> [B]  
 [D, C, A] ----> [B]  
 [D, A] ----> [C]  
 [D, B] ----> [C]

[D, B, A] ----> [C]

| D | E | F | H | I |
|---|---|---|---|---|
|---|---|---|---|---|

[F, E] ----> [D]  
 [H, E] ----> [D]  
 [I, E] ----> [D]  
 [H, F, E] ----> [D]  
 [I, F, E] ----> [D]  
 [I, H, E] ----> [D]  
 [I, H, F, E] ----> [D]  
 [D] ----> [E]  
 [F, D] ----> [E]  
 [H, D] ----> [E]  
 [I, D] ----> [E]  
 [H, F, D] ----> [E]  
 [I, F, D] ----> [E]  
 [I, H, D] ----> [E]  
 [I, H, F, D] ----> [E]  
 [D] ----> [F]  
 [E, D] ----> [F]  
 [H, D] ----> [F]  
 [I, D] ----> [F]  
 [H, E] ----> [F]  
 [I, E] ----> [F]  
 [H, E, D] ----> [F]  
 [I, E, D] ----> [F]  
 [I, H, D] ----> [F]  
 [I, H, E] ----> [F]  
 [I, H, E, D] ----> [F]  
 [D] ----> [H]  
 [E, D] ----> [H]  
 [F, D] ----> [H]  
 [I, D] ----> [H]  
 [F, E] ----> [H]  
 [I, E] ----> [H]  
 [F, E, D] ----> [H]  
 [I, E, D] ----> [H]  
 [I, F, D] ----> [H]  
 [I, F, E] ----> [H]  
 [I, F, E, D] ----> [H]  
 [D] ----> [I]  
 [E, D] ----> [I]  
 [F, D] ----> [I]  
 [H, D] ----> [I]  
 [F, E] ----> [I]  
 [H, E] ----> [I]  
 [F, E, D] ----> [I]  
 [H, E, D] ----> [I]  
 [H, F, D] ----> [I]  
 [H, F, E] ----> [I]  
 [H, F, E, D] ----> [I]

| E | G |
|---|---|
|---|---|

[E] ----> [G]

| I | J |
|---|---|
|---|---|

[J] ---> [I]  
[I] ---> [J]

|   |   |
|---|---|
| I | K |
|---|---|

[K] ---> [I]  
[I] ---> [K]

## Boyce-Codd-Normalform

|   |   |   |   |   |
|---|---|---|---|---|
| D | E | F | H | I |
|---|---|---|---|---|

[F, E] ---> [D]  
[H, E] ---> [D]  
[I, E] ---> [D]  
[H, F, E] ---> [D]  
[I, F, E] ---> [D]  
[I, H, E] ---> [D]  
[I, H, F, E] ---> [D]  
[D] ---> [E]  
[F, D] ---> [E]  
[H, D] ---> [E]  
[I, D] ---> [E]  
[H, F, D] ---> [E]  
[I, F, D] ---> [E]  
[I, H, D] ---> [E]  
[I, H, F, D] ---> [E]  
[D] ---> [F]  
[E, D] ---> [F]  
[H, D] ---> [F]  
[I, D] ---> [F]  
[H, E] ---> [F]  
[I, E] ---> [F]  
[H, E, D] ---> [F]  
[I, E, D] ---> [F]  
[I, H, D] ---> [F]  
[I, H, E] ---> [F]  
[I, H, E, D] ---> [F]  
[D] ---> [H]  
[E, D] ---> [H]  
[F, D] ---> [H]  
[I, D] ---> [H]  
[F, E] ---> [H]  
[I, E] ---> [H]  
[F, E, D] ---> [H]  
[I, E, D] ---> [H]  
[I, F, D] ---> [H]  
[I, F, E] ---> [H]  
[I, F, E, D] ---> [H]  
[D] ---> [I]  
[E, D] ---> [I]  
[F, D] ---> [I]  
[H, D] ---> [I]  
[F, E] ---> [I]  
[H, E] ---> [I]  
[F, E, D] ---> [I]  
[H, E, D] ---> [I]  
[H, F, D] ---> [I]  
[H, F, E] ---> [I]  
[H, F, E, D] ---> [I]

|   |   |
|---|---|
| E | G |
|---|---|

[E] ----> [G]

|   |   |
|---|---|
| I | J |
|---|---|

[J] ----> [I]

[I] ----> [J]

|   |   |
|---|---|
| I | K |
|---|---|

[K] ----> [I]

[I] ----> [K]

|   |   |   |
|---|---|---|
| A | C | D |
|---|---|---|

[D, A] ----> [C]

|   |   |
|---|---|
| A | B |
|---|---|

[A] ----> [B]