## Datenbanken 2

## Dokumentation zu Übung 3

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## Aufgabe 2

```
- DDL for Function MIN_MAX_SCALE
 CREATE OR REPLACE FUNCTION "MIN_MAX_SCALE"
  (min_old NUMBER, min_new NUMBER, max_old NUMBER, max_new
     NUMBER v NUMBER)
RETURN NUMBER
IS
BEGIN
 RETURN (((v - min_old)/(max_old - min_old))*(max_new -
     min_new) + min_new;
END;
 — DDL for Procedure MIN_MAX_CALCULATOR
 - Ergebnisse werden in neue Table eingetragen
 CREATE OR REPLACE PROCEDURE "MIN.MAX.CALCULATOR"
  (min_new NUMBER max_new NUMBER)
IS
min_old number;
BEGIN
 SELECT MIN(ZAHLEN) INTO min_old FROM NUMBERS;
 INSERT INTO NUMBERS.RESULT(
 SELECT MIN_MAX_SCALE( min_old , min_new , (SELECT MAX(ZAHLEN)
    FROM NUMBERS), max_new, ZAHLEN)
 FROM NUMBERS);
END;
 - Alternative: Update in gleicher Table
CREATE OR REPLACE PROCEDURE "MIN.MAX.CALCULATOR"
  (min_new NUMBER, max_new NUMBER)
IS
min_old number;
BEGIN
SELECT MIN(ZAHLEN) INTO min_old FROM NUMBERS;
```

```
--> Result:

EXECUTE min_max_calculator (0,10);

SELECT * FROM NUMBERS ORDER BY ZAHLEN ASC;
```

ZAHLEN
5
10
20
25
42
50
53
100
120
142
242
250
342
350
420

## Aufgabe 3

```
CREATE TABLE "ANGESTELLTE" (
"A_NR" NUMBER(*,0),
"A_NAME" VARCHAR2(50 BYTE),
"A_GEBURTSDATUM" DATE,
"A_BERUFSBEZEICHNUNG" VARCHAR2(60 BYTE),
"A_MONATSGEHALT" NUMBER(*,0),
"A_GESCHLECHT" VARCHAR2(10 BYTE),
PRIMARY KEY ("A_NR"));
```

```
— DDL for Table ARBEITER
```

```
CREATE TABLE "ARBEITER" (
      "A.NAME" VARCHAR2(30 BYTE),
      "A.VORNAME" VARCHAR2(30 BYTE),
      "A_GEBURTSMONAT" VARCHAR2(5 BYTE),
      "ASTUNDENLOHN" NUMBER(*,0),
      PRIMARY KEY ("A.NAME", "A.VORNAME"));
DDL for Table BERUFE
CREATE TABLE "BERUFE" (
      "B_CODE" NUMBER(*,0),
      "B_TYPE" VARCHAR2(30 BYTE),
      PRIMARY KEY ("B_CODE"));
 DDL for Table GESCHLECHTER
CREATE TABLE "GESCHLECHTER" (
      "G_CODE" NUMBER(*,0),
      "G_TYPE" VARCHAR2(10 BYTE),
      PRIMARY KEY ("G_CODE"));
 DDL for Table PERSONAL
CREATE TABLE "PERSONAL" (
      "PNR" NUMBER(*,0),
      "P.NAME" VARCHAR2(30 BYTE),
      "P_VORNAME" VARCHAR2(30 BYTE),
      "P_ALTER" NUMBER(*,0),
      "P_GESCHLECHT" NUMBER(*,0),
      "P_BERUFSCODE" NUMBER(*,0),
      "P_JAHRESEINKOMMEN" NUMBER(*,0),
      PRIMARY KEY ("P_NR"),
      FOREIGN KEY ("P_GESCHLECHT") REFERENCES "GESCHLECHTER"
         ("G_CODE"),
      FOREIGN KEY ("P.BERUFSCODE") REFERENCES "BERUFE" ("
         B_CODE"));
 DDL for Table ZUORDNUNG
```

```
CREATE TABLE "ZUORDNUNG" (

"Z_NR" NUMBER(*,0),

"Z_TABLE_OLD" VARCHAR2(30 BYTE),

"Z_KEY_OLD" VARCHAR2(60 BYTE),

PRIMARY KEY ("Z_NR"),

FOREIGN KEY ("Z_NR") REFERENCES "PERSONAL" ("P_NR"));
```

```
Insert into GESCHLECHTER (G_CODE,G_TYPE) values ('0', 'unbekannt');
Insert into GESCHLECHTER (G_CODE,G_TYPE) values ('1', 'weiblich');
Insert into GESCHLECHTER (G_CODE,G_TYPE) values ('2', 'maennlich');
```