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## Datenbanksysteme I 6. Übungsserie

```
Aufgabe 1:
 (a)
    update Professoren
    set Rang = 'C4'
    where Rang = 'C3'
 (b)
    delete from Assistenten
    where Fachgebiet = 'Planetenbewegung'
Aufgabe 2:
 (a)
    create table User (
            id
                              varchar(15) primary key,
                     varchar (50)
            name
    );
    create table Tweet (
                              bigint primary key,
             id
             user_id varchar(15),
             foreign key (user_id)
             references User (id),
                     varchar(280) not null,
             text
            date
                     timestamp not null
    )
    create table follows (
             follower_id
                              varchar(15) not null,
                              varchar(15) not null,
             follows_id
            primary key (follower_id , follows_id),
             foreign key (follower_id)
             references User(id),
             foreign key (follows_id)
             references User (id)
    create table likes (
             user_id
                              varchar(15) not null,
             tweet_id
                              bigint not null,
                              timestamp,
            date
            primary key (user_id, tweed_id),
             foreign key (user_id)
             references User(id),
             foreign key (tweet_id)
             references Tweet(id)
    )
 (b)
    create table User (
            id
                              varchar(15) primary key,
```

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```
varchar (50)
           name
   );
   create table Tweet (
                            bigint primary key,
           user_id varchar(15) references User(id) on delete set null,
                    varchar(280) not null,
           text
                   timestamp not null
           date
   );
   create table follows (
           follower_id
                            varchar(15) references User(id) on delete cascade,
                            varchar(15) references User(id) on delete cascade,
           follows_id
           primary key (follower_id , follows_id)
   );
   create table likes (
           user_id
                            varchar(15) references User(id) on delete cascade,
                            bigint references Tweet(id) on delete cascade,
           tweet_id
                            timestamp,
           date
           primary key (user_id , tweed_id)
   );
(c)
   create table User (
           id
                            varchar(15) primary key,
                    varchar(50)
           name
   );
   create table Tweet (
                            bigint primary key,
           user_id varchar(15) references User(id) on delete set null,
                    varchar(280) not null,
           text
                    timestamp not null.
           check (not user_id is null or text = 'removed')
   );
   create table follows (
           follower_id
                            varchar(15) references User(id) on delete cascade,
                            varchar(15) references User(id) on delete cascade,
           follows_id
           primary key (follower_id , follows_id )
   );
   create table likes (
           user_id
                            varchar(15) references User(id) on delete cascade,
           tweet_id
                            bigint references Tweet(id) on delete cascade,
           date
                            timestamp,
           primary key (user_id, tweed_id),
           check (
           tweet_id in (
                    select Tweet.id
                   from Tweet
                    where likes.tweet_id = Tweet.id
                   and likes.date > Tweet.date
   );
```

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## Aufgabe 3:

with factor as (values(1),(2),(3),(4),(5),(6),(7),(8),(9),(10)) select \*, factor1 \* factor2 as product from factor as f1(factor1), factor as f2(factor2) order by factor1, factor2