Lektionsøvelse 1

Exercise

→ Join Discord here: https://discord.gg/ktG6JYRWhf !!!!
→ Install Postgres SQL
   → Download from: https://www.enterprisedb.com/downloads/postgres-postgresql-downloads
→ Install DataGrip (Github Student Pack or Jetbrains Education:
   https://www.jetbrains.com/shop/eform/students (go to "apply with github")
→ Create Database
→ Find example queries on itslearning in Plans, or below with the full link
   → Full link here: https://gist.github.com/jakobhviid/e11a5540395e93ece585ebdceea2109d
   → Run operations
   → Create Table
   → Insert two unique Rows
   → Query for all rows
   → Query for the data in one of the Rows
   → Delete one of the Rows
   → Verify deletion by querying for all Rows again

Opgave 1

Create Table and Create Two Unique Rows

Besvarelse

Here I have created the different tables from SQL-Code.

```
CREATE TABLE konto(
    user_id SERIAL PRIMARY KEY,
    username VARCHAR (50) UNIQUE NOT NULL,
    password VARCHAR (50) NOT NULL,
    email VARCHAR (355) UNIQUE NOT NULL,
    created_on TIMESTAMP NOT NULL,
    last_login TIMESTAMP
);

INSERT INTO konto(username, password, email, created_on)
VALUES ('John','myPassw0rd','john@acme.com',NOW());

INSERT INTO konto(username, password, email, created_on)
VALUES ('Anne','myPassW0rd','anne@acme.com',NOW());

-- I have inserted the names of my 2nd Semesterproject Group members of 2023 in
Software Engineering.
INSERT INTO konto(username, password, email, created_on)
VALUES ('Vivek','vimis22','vimis22@student.sdu.dk',NOW());

INSERT INTO konto(username, password, email, created_on)
VALUES ('Denisa','deris22','deris22@student.sdu.dk',NOW());

INSERT INTO konto(username, password, email, created_on)
VALUES ('Mia Kongestad Weiling', 'sowel22', 'sowel20@student.sdu.dk',NOW());

INSERT INTO konto(username, password, email, created_on)
VALUES ('Amila Kapetan', 'amkap22', 'amkap22@student.sdu.dk',NOW());
```

```
-- Instructor and Supervisor of our Group.
INSERT INTO konto(username, password, email, created_on)
VALUES ('Sofie Ørnfeldt Nedergaard','soned19','soned19@student.sdu.dk',NOW());

-- Our Teacher for the Course
INSERT INTO konto(username, password, email, created_on)
VALUES ('Mina Alipour','mial','mial@mmmi.sdu.dk',NOW());

SELECT * FROM konto;
```

Opgave 2

Query all the rows and for one of the data for one of the rows.

Besvarelse

In this case we can see that we have created the following query for the rows.

```
-- Show only the section where the email is defined.
SELECT username, created_on FROM konto WHERE email = 'john@acme.com';
SELECT username, created_on FROM konto WHERE email LIKE '%anne%';

-- Here we have changed the passwords for the specific group members.
UPDATE konto SET password = 'newPassW0rd' WHERE username = 'Anne';
UPDATE konto SET password = 'viveksadgangskode' WHERE username = 'Vivek';
UPDATE konto SET password = 'denisasadgangskode' WHERE username = 'Denisa';
UPDATE konto SET password = 'miasadgangskode' WHERE username = 'Mia Kongestad
Weiling';
UPDATE konto SET password = 'amilasadgangskode' WHERE username = 'Amila
Kapetan';

-- Here we have modified/updated the names of the usernames.
UPDATE konto SET username = 'Vivek Misra' WHERE user_id = 3;
UPDATE konto SET username = 'Denisa Alicia Rissa' WHERE user_id = 4;

-- Here we have updated the password for the names.
UPDATE konto SET password = 'sofiesadgangskode' WHERE user_id = 7;
UPDATE konto SET password = 'minasadgangskode' WHERE user_id = 8;

SELECT * FROM konto;
```

Opgave 3

Delete one of the rows from the table.

Besvarelse

```
-- Deleting selected Names.
DELETE FROM konto WHERE username = 'John';
DELETE FROM konto WHERE username = 'Anne';
SELECT * FROM konto;
```

Here I have inserted the result from DataGrip.

user_id	username	password	email	created_on	last_login
5	Mia Kongestad Weiling	miasadgangskode	sowel20@student.sdu.dk	2023-05-13 13:57:45.599636	\<null\>
6	Amila Kapetan	amilasadgangskode	amkap22@student.sdu.dk	2023-05-13 13:57:47.385896	\<null\>
4	Denisa Alicia Rissa	denisasadgangskode	deris22@student.sdu.dk	2023-05-13 13:57:43.486600	\<null\>
3	Vivek Misra	viveksadgangskode	vimis22@student.sdu.dk	2023-05-13 13:57:41.675554	\<null\>
7	Sofie Ørnfeldt Nedergaard	sofiesadgangskode	soned19@student.sdu.dk	2023-05-13 13:57:49.758324	\<null\>
8	Mina Alipour	minasadgangskode	mial@mmmi.sdu.dk	2023-05-13 13:57:51.618861	\<null\>