

03b Database granular access

Install PostgreSQL

Integrating with this database requires PostgreSQL installed: <https://www.postgresql.org/>

Connecting to the database

Open the terminal and connect to the database using the following command:

```
psql "--host=sysint.postgres.database.azure.com" "--port=5432" "--dbname=postgres" "--username=asger" "--set=sslmode=require"
```

You will be prompted to type in a password. The password is: **1234**

Accessing the database

NOTE: PostgreSQL uses both " " and ' ', and must be used correctly in the following examples.

Once you're connected you have access to the following commands:

Show available tables in the database using:

```
\d
```

Inspect a table in detail using:

```
\d "Students"
```

Retrieve data from the 'Students' table using:

```
SELECT (id, name) FROM "Students";
```

Update data from the 'Students' table using:

```
UPDATE "Students" SET name='asdf' WHERE id=1;
```

Try accessing data you're not permitted to by using:

```
SELECT * FROM "Students";
```

Or update it using:

```
UPDATE "Students" SET id=3 WHERE ID=1
```

Exit the session using:

```
\q
```