**Task 1: Creating database, tables (**Tuomas Pasanen**)**

Note: Text marked in *italics* means a variable name, replace it with the desired name of your own.

Note: psql supports multiline commands, so remember to use a semicolon to end them.

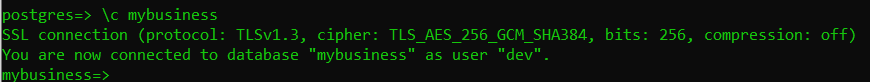
Note: psql is not case sensitive, but it is commonplace to type commands in uppercase.

A database can be created with the command “CREATE DATABASE *dbname*[*options*]”:

A picture containing graphical user interface

Description automatically generated

“\l” lists the databases, where we can see that the “mybusiness” database has been created.



With “\c *dbname*”, we can connect to the database. Notice the reticle changing in the terminal, indicating the database we are currently in.

Doing “\dt” (short for “\dtables”) lists the tables in the database, which we have none of currently.



Let’s create the first table in the task, the command to do it is “CREATE TABLE *tablename(data1 datatype, data2 datatype)*”.

Inside the parentheses we have our columns

Text

Description automatically generated

Notice the multiline command to make the command easier to type and read.

Now doing “\dt” shows our table: Text

Description automatically generated

Furthermore, doing “SELECT \* FROM *salesman*” shows the data inside our table, and how it is structured:

A screenshot of a computer

Description automatically generated with medium confidence

Now we want to alter the columns a bit, to make them fit the requirements of the task.

First is constricting the commission -column to values between 0 and 1. We can alter the column and do a check everytime something is inserted, giving an error if our check returns false:



Second is having the serial salesman\_id start from 5000 instead of 0, this can be done with “ALTER SEQUENCE *table*\_*column­\_seq* RESTART WITH *integer*“:

