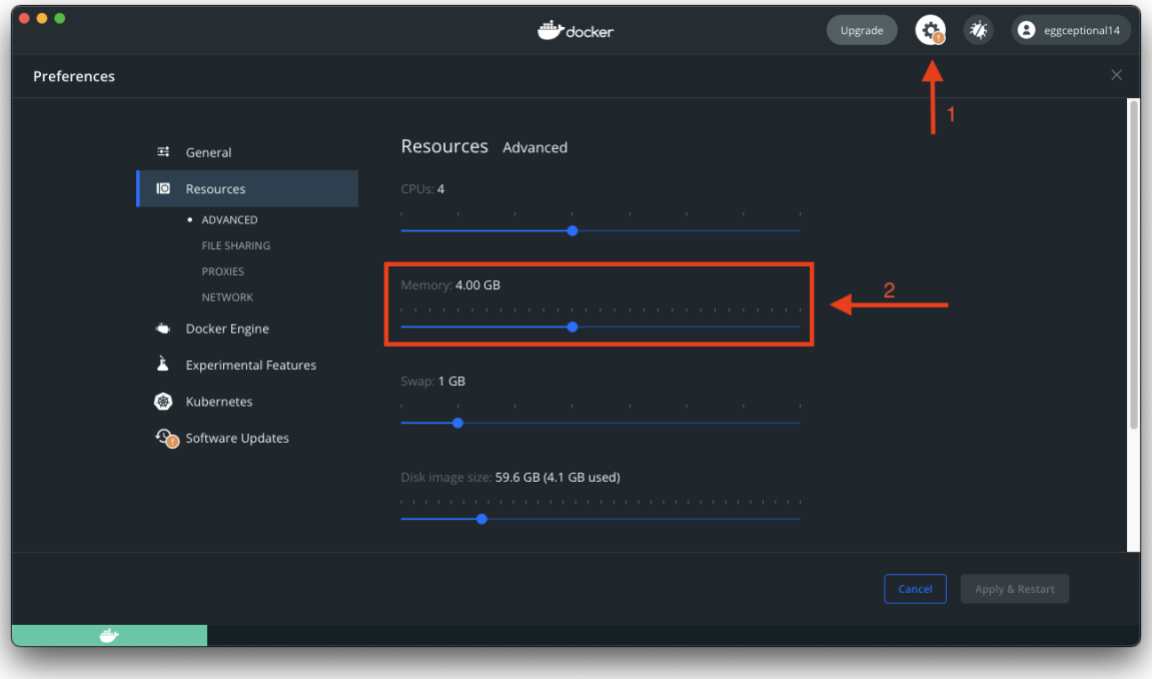
Installing MS SQL Server on MacOS

Step 1:

Download Docker (download the version that correspond to your cpu e.g., intel, apple) via this link: https://www.docker.com/products/docker-desktop

Step 2:

Launch Docker and set the memory to 4Gb (at least) because MS SQL Server need at least 2Gb of memory



Step 3:

Download MS SQL Server using mac terminal with this command.

```
sudo docker pull mcr.microsoft.com/mssql/server:2017-latest
```

Step 4:

Launch the Docker image by running this command.

```
docker run -d --name sql_server_demo -e 'ACCEPT_EULA=Y' -e 'SA_PASSWORD=reallyStrongPwd123' -p 1433:1433 mcr.microsoft.com/mssql/server:2017-latest
```

-d	Launch docker container in daemon mode, which means it runs its terminal in the background. If you prefer to have the terminal, remove this parameter.
--name	Name of the container of the docker.
-e 'ACCEPT_EULA=Y'	Y indicates that you agree with the EULA (End User License Agreement), SQL Server require you to agree with the EULA.
-e 'SA_PASSWORD='	Password for the SQL Server, SQL Server only allow password longer or equal to 8 characters with some uppercase mix with some lowercase and numeric character. If you wish to create your own password, you can change it by replacing the text after the =
-p 1433:1433	Map local port 1433 to port 1433 on the container (this is the default port).
mcr.microsoft.com/mssql/server:2017-latest	Image of docker.

Step 5:

Check if the docker container is running by running this command.

```
docker ps
```

If nothing shows up except the column names that means something is wrong.

If something similar to this show up on your terminal, you are good to go.

Step 6:

Install sql-cli by running this command in terminal.

```
npm install -g sql-cli
```

If there is a permission error use this command instead.

```
sudo npm install -g sql-cli
```

Step 7:

Connect to the SQL Server by running this command in the terminal.

```
mssql -u sa -p reallyStrongPwd123
```

If you changed the password be sure to change the text the password in this step too.

Step 8:

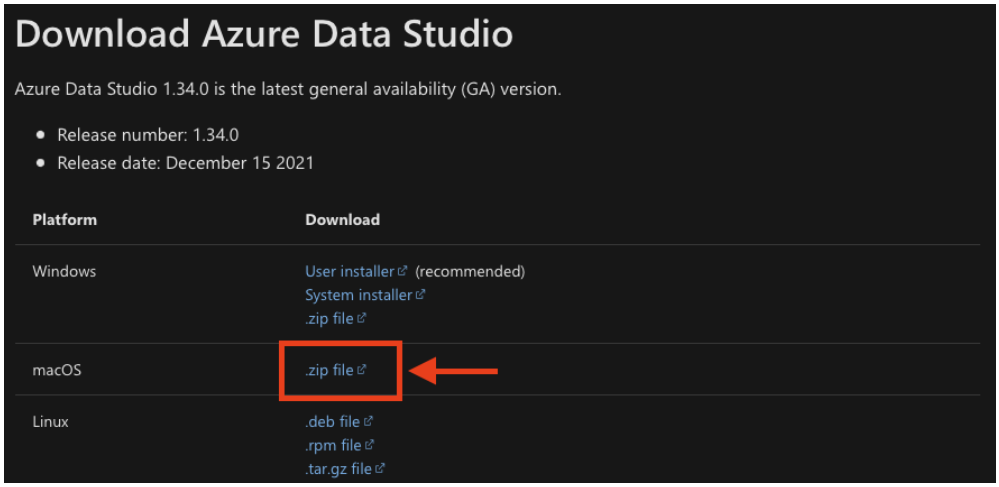
Run a test to check that the sql server is running.

```
select @@version
```

Step 9:

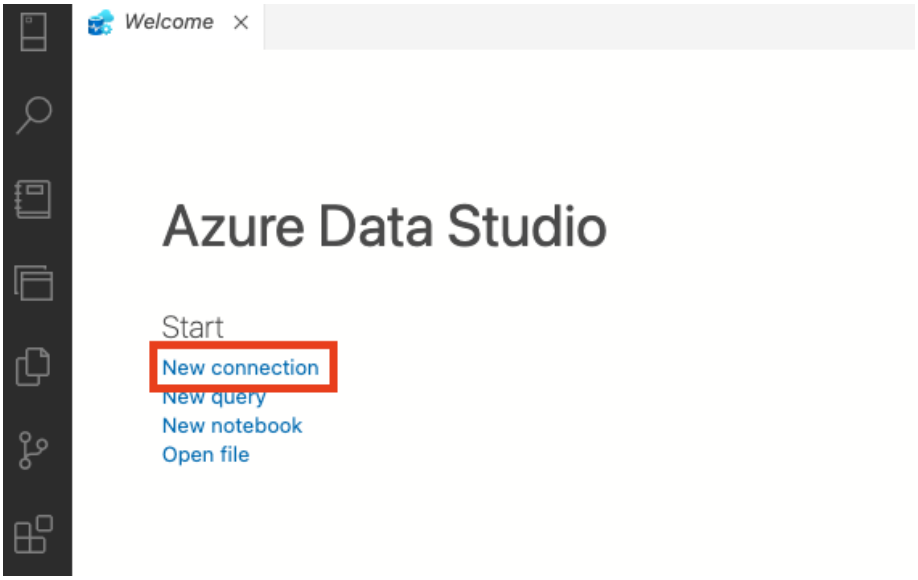
Install Azure Data Studio (There is no SQL Server Management Studio for Mac)

https://docs.microsoft.com/en-ca/sql/azure-data-studio/download-azure-data-studio?view=sql-server-ver15

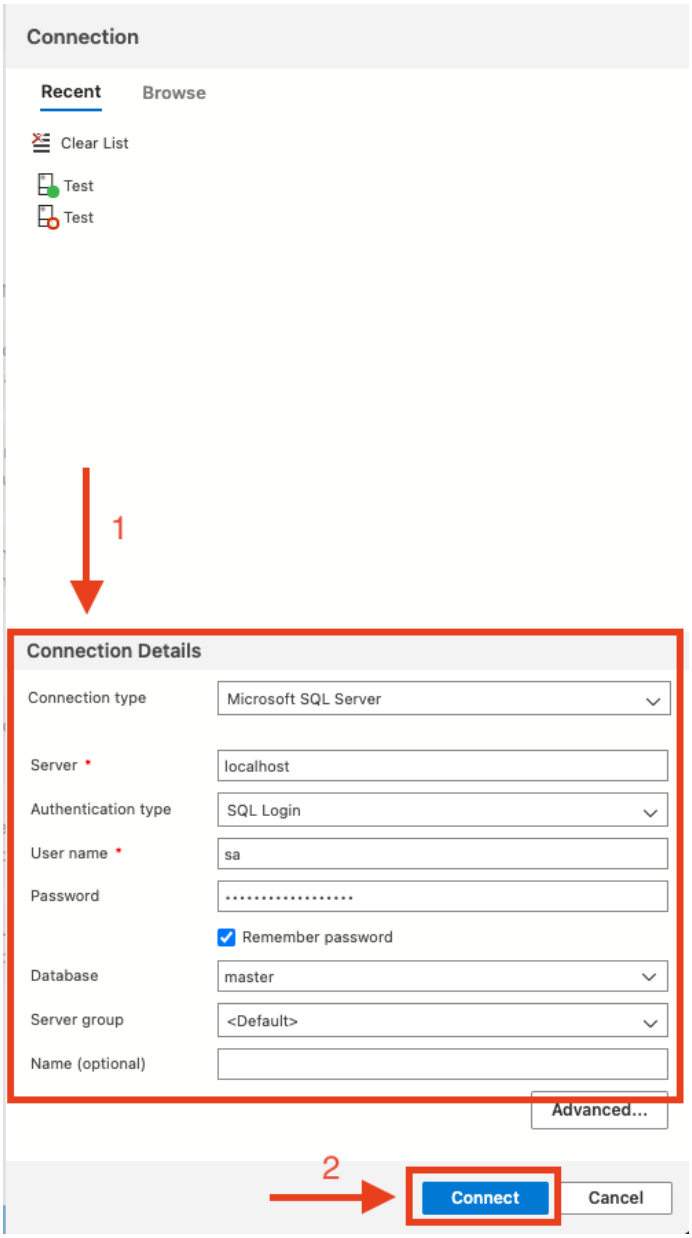


Step 10:

Connect to the SQL Server



Enter all the required information in the input box



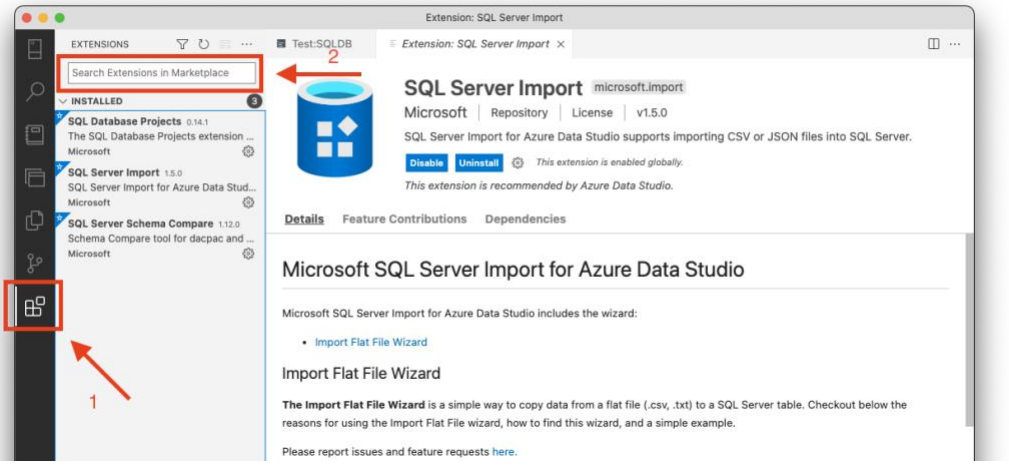
The server should be localhost and the username should be sa, the password should be the same as you use in the sql-cli. Use master for the database first but later we will create new one after creating the new database.

Step 11:

Install these extensions into Azure Data Studio:

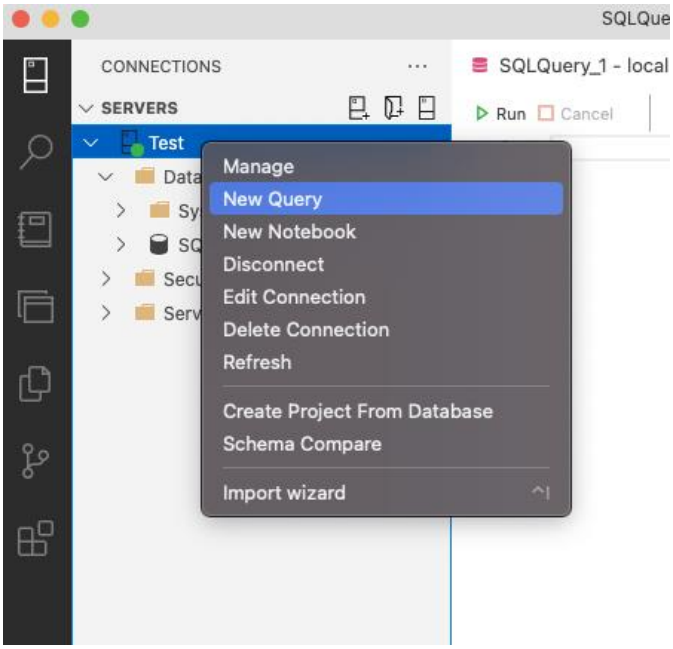
SQL Database Projects

SQL Server Import



Step 12:

Create database by using SQL queries (refresh after you run the query)

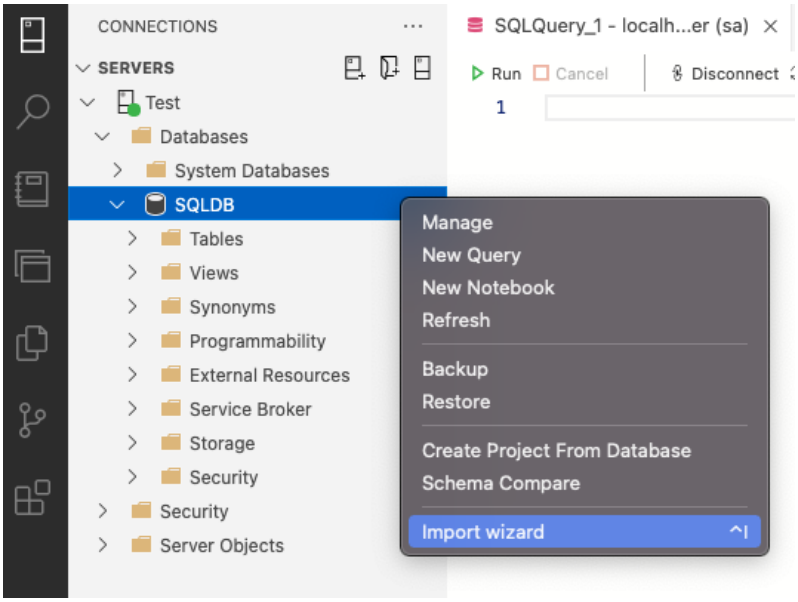


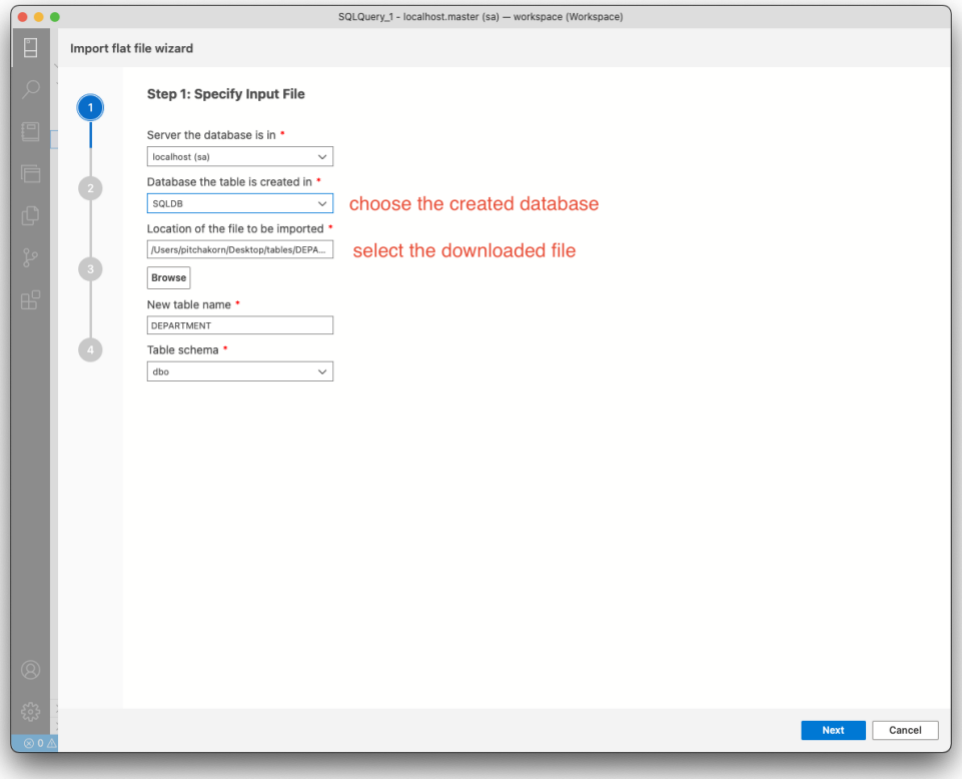

```
-- Create a new database called 'SQLDB'
-- Connect to the 'master' database to run this snippet
USE master
GO
-- Create the new database if it does not exist already
IF NOT EXISTS (
   SELECT [name]
      FROM sys.databases
      WHERE [name] = N'SQLDB'
)
CREATE DATABASE SQLDB
```

GO

Step 13:

Import tables using the import wizard (download table from the given tables file in the google classroom)





Repeat the import until all table is create. When you finish import the table refresh the database and the table should show up in the table folder of the database.