# PostgreSQL

## What is PostgreSQL

**An SQL engine** which **stores data** and **reads queries** and **returns information**

## What is PgAdmin

A graphical user interface to connect with PostgreSQL

## Credentials

Local laptop superadmin password – password

Master password - password

## Points to note in sql query

* Sql keywords will be typed in uppercase, even though if you don’t type them in upper case, still SQL engine executes them, but typing them in upper case is what will separate your dynamic database information (such as table name, column name) from constant information (ex: SELECT, UPDATE, JOIN, GROUP BY)
  + Ex: SELECT employee\_id FROM employee

## SELECT statement

It is used to fetch (select) certain amount of information from a table.

### How is select query executed by sql engine?

First engine checks whether the table that is being queried exists or not, then it will check whether the columns that are being requested are existing or not, then the data is returned by the SQL engine

### Syntax

SELECT col1,col2,.. FROM table\_name;

### note

It is not a good practice to use SELECT \* FROM table\_name; as this increases the traffic between the database server and application, which can increase the latency of the results

If you don’t need all the columns, you can only mention the columns that you need