

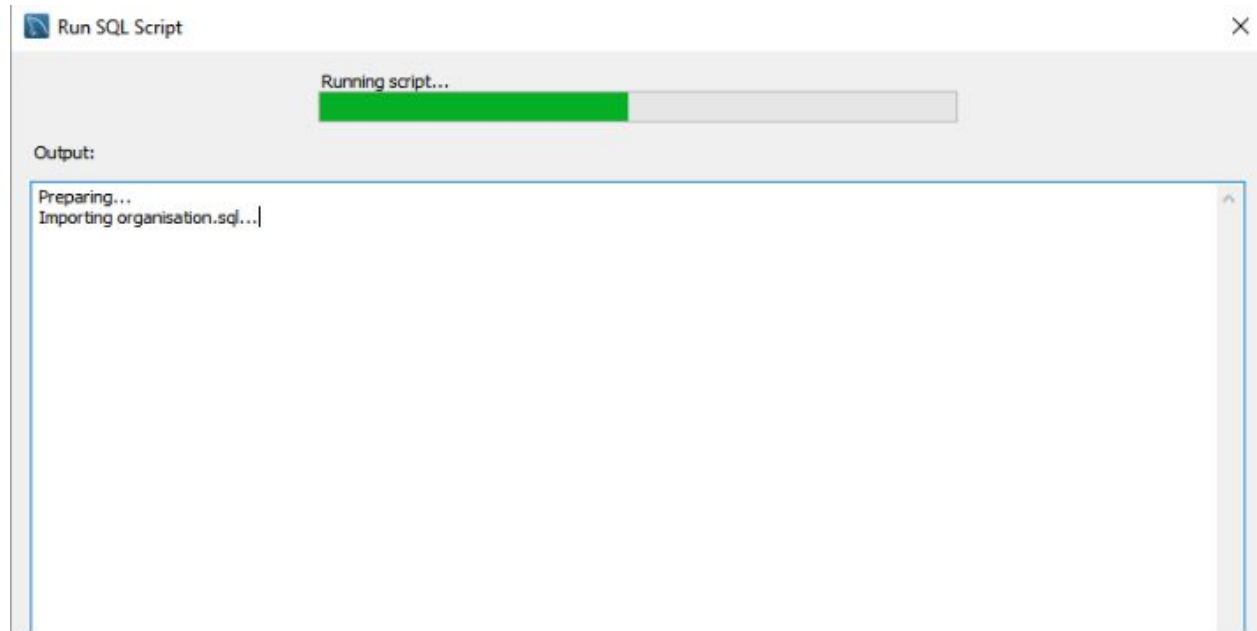
SQL CRASH COURSE Part 3

There are many ways to create SQL databases on your machine.

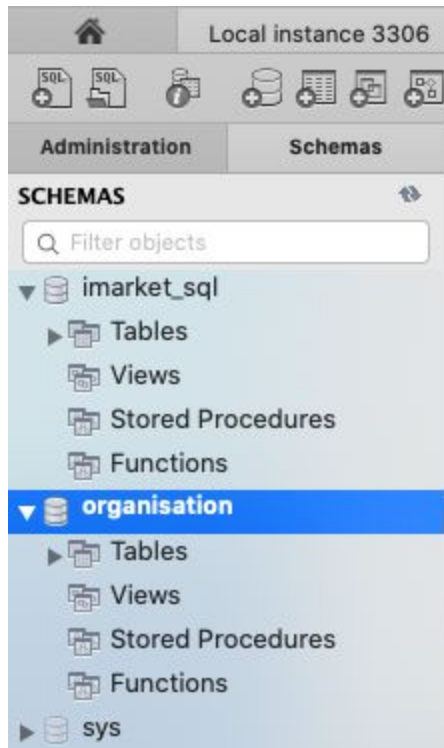
In general, one should write all the necessary queries to first create the database with its tables and the connections among them, then populate the db loading data into it.

We will simply run a setup script which will do everything for us, therefore we need to import the script through MySQL workbench and wait for it to get ready. So just go through the following steps.

1. Log into MySQL workbench with **root user** and *password*.
2. Download the setup db script *organisation.sql*
3. File → Run
4. In MySQL workbench, it will look like in the following screenshot
5. While running the sql file to import the db, leave everything like it is when it asks you something.



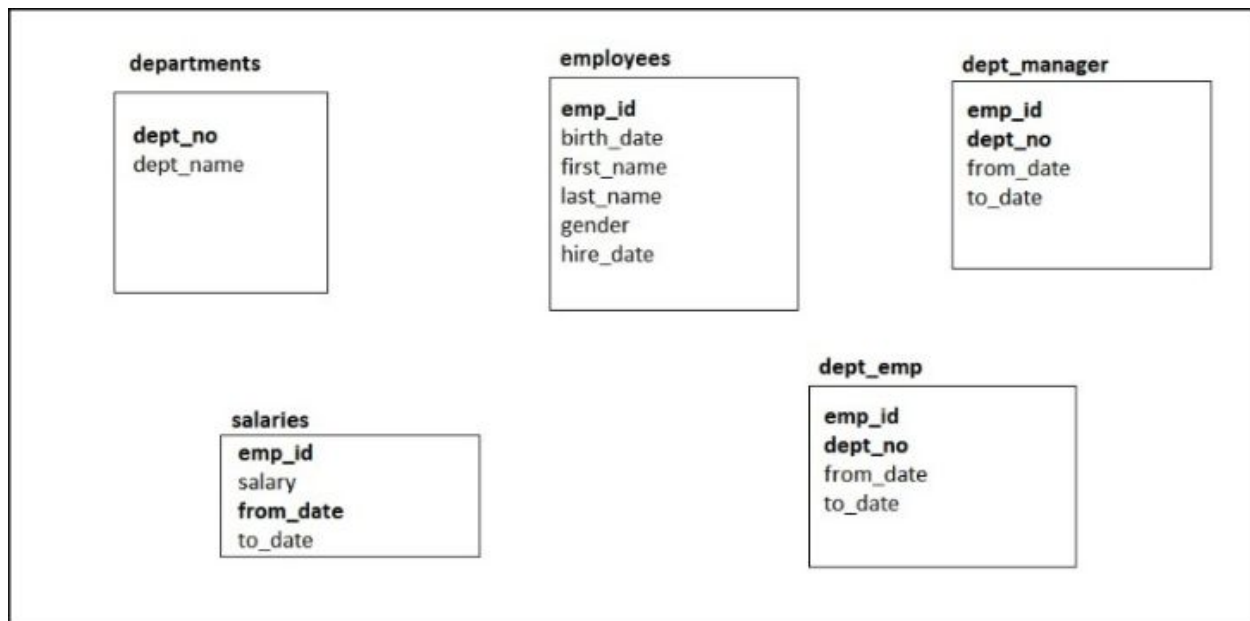
In a few minutes the database ***Organisation*** should be ready and it should appear in the schema list, if it does not, refresh the schema list pressing the button as in the top right corner of the following screenshot.



Your workbench is probably set on the imarket db, so we need to set it on this new one first; use the following command:

use organisation;

A schema of the db is represented in the following image, **keys** are in bold.



Some useful commands to explore the db at the beginning follow.

SHOW tables;

show schemas;

use organisation;

#Query 0 explore a little bit by yourself with some "SELECT * FROM tables".

#Query 1

#What is the employee id of the highest paid employee?

#Query 2

#What is the name of the youngest employee ?

#Query 3

#What is the name of the first hired employee ?

#Query 4

#What percentage of employees are Female ?

#Query 5

#Show the employee count by department name wise, sorted alphabetically on department name.

#Query 6

#Count the number of new employees by each calendar year (take the value of year from from_date)

#Query 7

#Count the number of employees by each calendar year (take the value of year from from_date)

Query 8

What is the number of managers hired each calendar year.

Query 9

What will be the department wise break up of managers ?

Query 10

What is the number of male and female managers hired each calendar year from 1990 onwards?