Using MySQL with Cloud9

This article explains our first iteration of MySQL support in Cloud9. It makes it super easy to install, start and stop a MySQL instance right in your workspace. The nice thing is that every workspace will run a separate database so your projects will never interfere with each other. You can control MySQL with the mysql-ctlcommand line tool run from the terminal:

# start MySQL. Will create an empty database on first start

$ mysql-ctl start

# stop MySQL

$ mysql-ctl stop

# run the MySQL interactive shell

$ mysql-ctl cli

You can then connect to the database with following parameters:

* Hostname - $IP (The same local IP as the application you run on Cloud9)
* Port - 3306 (The default MySQL port number)
* User - $C9\_USER (Your Cloud9 user name)
* Password - "" (No password since you can only access the DB from within the workspace)
* Database - c9 (The database username)

To verify your hostname, you can connect to the mysql cli and show the host by running the following commands:

mysql-ctl cli

Once connected to the mysql shell, run the following:

select @@hostname;

Selecting your database

mysql> use c9;

mysql> show tables;

Creating a table in your database

Enter the command that follows to create a table in your database. In this table the user ID number of a user serves as the primary key. Each model ID number is correlated with its first and last name.

1 mysql> CREATE TABLE names (

2 -> user\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

3 -> firstName VARCHAR(128),

4 -> lastName VARCHAR(128),

5 -> PRIMARY KEY (user\_id));

You now perform your first query of the database. As you saw in the last activity, a query is used to extract data or rows from a database. Type SELECT \* FROM names;. The \* in the command is a wildcard and, as in a Google search query, means to match any string. What does MySQL display?

Adding data to your table

1 mysql> insert into names(firstName, lastName) values ('Gene', 'Haynes');