**MySQL Agent Variable Database:**

Each Raspberry Pi (agent) is given its own database to keep track of the most current values for its variables. This is done using a single table with three columns: one specifying agent name, one with the name of the variable in question, and one with the current value of that variable.

We have written three procedures which are called by the java back end. These procedures are called in AgentDataManager.java.

**Procedures:**

updateValue(agentName, variableName, value):

* Example: updateValue( agt1, a, 5) will update variable a belonging to agt1 to have a value of 5.

Clear():

* Calling clear cleans out all of the data from the database. This is used to clean out old information between runs of the algorithm.
* Although leaving the old data would not affect the execution of the java algorithm, it would create a risk of a user seeing inaccurate data when viewing their agent in the web application. That is why “clear()” is necessary.

deleteAgent(agentName):

* Deletes all rows pertaining to the agent specified by the single parameter.