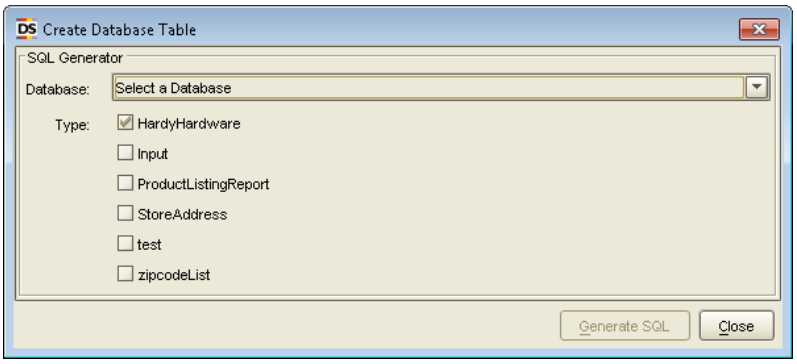
Lab 9-1

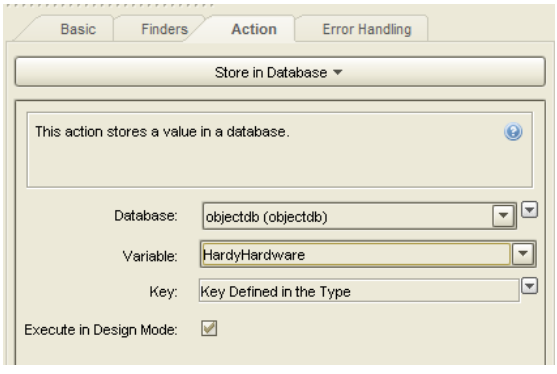
Lab – The Development Database and the Management Console

In this lab, you will slightly change the Robot you created in Lab 8. Specifically, you will write the data returned by a product search to a database: in this case, the development database. But before you can do that, you must first start the development database.

1. Open the Kapow Program Group and then select the Development Database folder. Double-click on "Start Development Database." Notice a command window opens and runs the appropriate command. As soon as the command returns, "**`started and ready to accept connections on port 1527`**," you're ready to use the database. *IMPORTANT: Do NOT close this window or you'll stop the service. You may minimize it instead*.
2. In Design Studio, open your "SearchItem.robot" in the robot view panel. The first thing you will need to do is add the database mapping to your project. Right mouse-click on the Databases folder and select "New" and "Database Mapping." Select the "Development Database" database from the dropdown.
3. Next, you will create a table in the development database for the data you'll output with the robot. On the menu bar, select "Tools" and then "Create Database Table." Select "objectdb" as the database and "HardyHardware" as the Type from which to create the table as shown here:



4. Click on the [Generate SQL] button to generate a SQL statement. Review the statement and if it looks OK, click on [Execute]. Your table will be created.
5. Go to the Return Value of your robot and then select its "Action" tab. Change the action to "Store In Database."
6. Select "objectdb" from the Database dropdown and "HardyHardware" as the variable. It should look like this:



7. Save your Robot.
8. From the main toolbar, upload your Robot to the Remote Management Console (globe icon). Accept the defaults and click on the [Upload] button.
9. In the resulting message box, click on the link to open the Management Console (or you can open your web browser and go to http://localhost:50080).
10. Take a few minutes to explore the tabs in the Management Console and the options available on each. If you have questions about any of them, go back to Design Studio and search for them using the online User Guide available from the "Help" menu.
11. In the Management Console, go to the "Repository" tab. Here, you will see any Robots you have uploaded. Notice that there is a "Run" button associated with the SearchItem robot you uploaded.
12. Click on the [Run] button. An error will be returned telling you that because this Robot requires a value for an Input Variable, you must first create a schedule. Close the error message.
13. Go to the "Schedules" tab. Click the [+ Add] button to add a new schedule.
14. Select "Default project" and click on [OK].
15. On the "Basic" tab in the New Schedule properties, set the following:
    a. Name — HH Item Search
    b. Active — checked
    c. Simple — selected
    d. Every — 1 Day
    e. Start Date — 17:30 Today's Date
    f. Run on Cluster — Non Production
16. Then in the right side of the properties window, click on the [Add job] button (this brings the "Select Robot" window), select "A single robot" and click on [Next].
17. Select your "Search_Item" robot from the dropdown list. Accept the default for "Display Name." Click [Next].
18. Here, you enter your input variable (the item you're searching on). Enter something likely to be found at a hardware store (sprinkler, bungee cord, hammer, light, etc.) Click [Finish] to close and then [Save] on the New Schedule window to save and close your new schedule. Your new robot will run daily at 5:30 p.m.
19. Let's run it now to see our results. Notice you can also manually run a Robot from the schedules tab (you saw a [Run] button on the Repository tab a couple of minutes ago). Click the blue [Run] button. If you want to stop your Robot once it's running, notice that the [Run] button has now changed to a [Stop] button.
20. While your Robot is running, you can click on the "Dashboard" panel to view activity.
21. When your robot has completed (the blue [Stop] button will return to a [Run] button), go to the "Data" tab. In the "Database navigation" panel, select "Non-production" cluster,

expand the objectdb database shown and select the “HARDYHARDWARE” table. You should see your data stored there.

22. If your Robot generated any errors, they will be displayed on the “Schedules” tab. If you see any, go to the “Logs” tab and try to determine the cause and what you might do to fix it.