Appian Academy

Build an Application: Step-by-Step #7

Exercise to Accompany
Query Your Data

The Appian Step-by-Step series consists of 12 exercises that accompany the courses in the Appian Developer learning path. Exercises build upon each other. Complete exercises in order and keep the app and all objects until you are done with the project.

Notice of Rights

Appian Step-by-Step 25.3
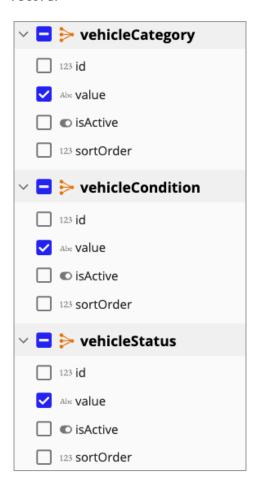
Exercise 7: Query Your Data

Create a Query

In this exercise, you will create an expression that returns information about a vehicle in the fleet given its ID. You will use this query in a later exercise to populate an interface with test data.

1. In the **Build** view of your application, click **NEW** > **Expression Rule**.

2. In the **Create Expression Rule** dialog, configure the following properties:

   - **Name**: Enter W#SA_QR_GetVehicleById.
   - **Description**: Enter Return a vehicle by its id.
   - **Save In**: Select **W#SA Expressions**.

3. Click **CREATE**.

4. Click **Launch the Query Editor**.

5. Under **Select Data Source**, select **Record Type**.

6. In **Record Type**, enter W#SA Vehicle. Click **CONTINUE**.

7. In the top right corner, click **RULE INPUTS**.

8. Click **Add New Rule Input**. Configure the following properties:

   - **Name**: Enter vehicleId.
   - **Description**: Enter vehicle ID for a given vehicle.
   - **Type**: Select **Number (Integer)**.
   - Click **OK**.

9. On the left, click on the arrow next to **vehicleCategory**, **vehicleCondition**, and **vehicleStatus** to see their record fields. Check the value box in each to return the

value field from each relationship. Keep the boxes checked for the fields in the vehicle record.

10. Click **FILTER**. Click **Add Filter**, and configure the following properties:

    - **Field**: Select **id**.
    - **Value**: Change **123** to **Input/Variable**. In the new dropdown, select **ri!vehicleId**.

11. Click **SORT AND LIMIT.** In the **Data Limit** field, enter 50.

12. Click **GENERATE QUERY**, then **SAVE**.

13. To test this query, under **Test Inputs**, in **Value**, enter any vehicle ID. For example, enter 1, and click **TEST RULE**. You will see the entire data subset in the **Test Output**.

Troubleshooting Resources

Stuck on a step, or need help troubleshooting? Appian provides several support resources that you can use as you build:

1. **Acme Auto Solution Application** - The Acme Auto Solution Application (AS) is the solution to the exercises you are following in the Step-by-Steps. You can use the AS application as a reference tool. Review it to see how specific objects are configured, or test the application to see how the features work from a business user's perspective. This application is preloaded into your workspace. If you do not see it in the list of applications in your workspace, you can deploy it from the App Catalog. Refer to **Build an Application: Step-by-Step #1** for more information on how to use the App Catalog.

2. [**Community Discussions for New Users**](#) - Check out the **New to Appian** thread in Community. Join our community of experts to ask questions and find answers from past discussions.

3. [**Appian Documentation**](#) - Appian's product documentation will provide you with an overview of key Appian features, newest release information, additional tutorials, and helpful patterns and recipes to implement in your app.