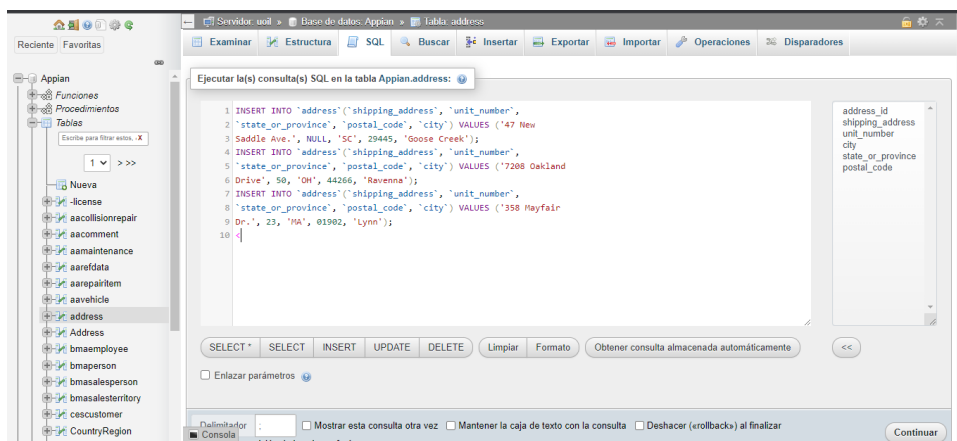
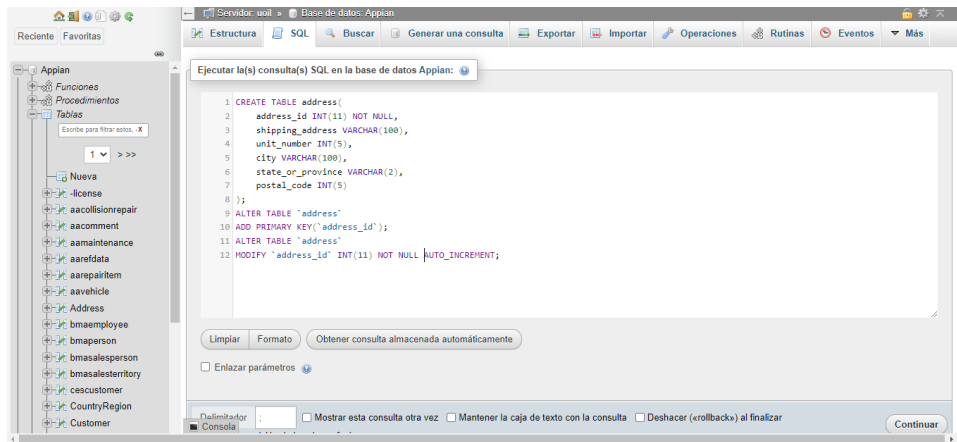


Ejercicio 1 - Build a Dynamic List – Orlando Sánchez Acuña

Part 1 – Create the Getting Started Objects

Create and Populate the Address Database Table



Create Groups, a CDT, and a Data Store

Create Group


Name *

ADV All Users

Description


Grupo de usuarios

Parent Group


Select a group 

Group Members

Group Type

Custom 

Visibility

Restricted (only members and admins) 

Create Group

Name *

ADV All Administrators

Description

Grupo de administradores

Parent Group

 ADV All Users  

Group Members

Group Type

Custom 

Visibility

Create Data Type

- Create from scratch
- Duplicate existing data type
- Create from database table or view
- Import XSD

Data Source *

jdbc/Appian (Tomcat)

Table or View *

address

CANCEL

CONTINUE

ADV Interfaces Practice | ADV Interfaces Practice | ADV Interfaces Practice | ADV Interfaces Practice | ADV Interfaces Practice | ADV Interfaces Practice | ADV Interfaces Practice | ADV Interfaces Practice | ADV Interfaces Practice | ADV Interfaces Practice

Create Data Type

Formatted as a URI, for example 'urn:com:appiantypes:COB' for a client onboarding application

Name *
ADV_Address

Description

Column Name	Field Name	Column Type	Field Type	Key	Nulls	Unique			
address_id	addressid	INT	Number (Integer)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	↑	↓	×
shipping_address	shippingAddress	VARCHAR(100)	Text	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	↑	↓	×
unit_number	unitNumber	INT	Number (Integer)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	↑	↓	×
city	city	VARCHAR(100)	Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	↑	↓	×

GO BACK CANCEL CREATE

Create Data Store

Name *

ADV DS

Description

Data Store for the ADV app

CANCEL

CREATE



Tip: Basic users must have at least viewer rights to the data store in order to use its entities to query, write, or delete data. [Learn more](#)

Name

ADV DS

User or Group	Permission Level	
Default (All Other Users)	No Access	
ADV All Administrators	Administrator	✗
ADV All Users	Viewer	✗
+ Add Users or Groups		

CANCEL

SAVE CHANGES

Create a Constant and an Expression to Query Addresses

Create Constant

Create from scratch Duplicate existing constant

Name *

ADV_DSE_ADDRESS

Description

Type *

Data Store Entity


Array (multiple values)

Data Store *

ADV DS

Entity *

ADV_Address

Environment Specific 

CANCEL

CREATE 

Create Expression Rule

Create from scratch Duplicate existing expression rule

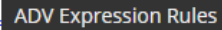
Name *

ADV_getAddresses

Description

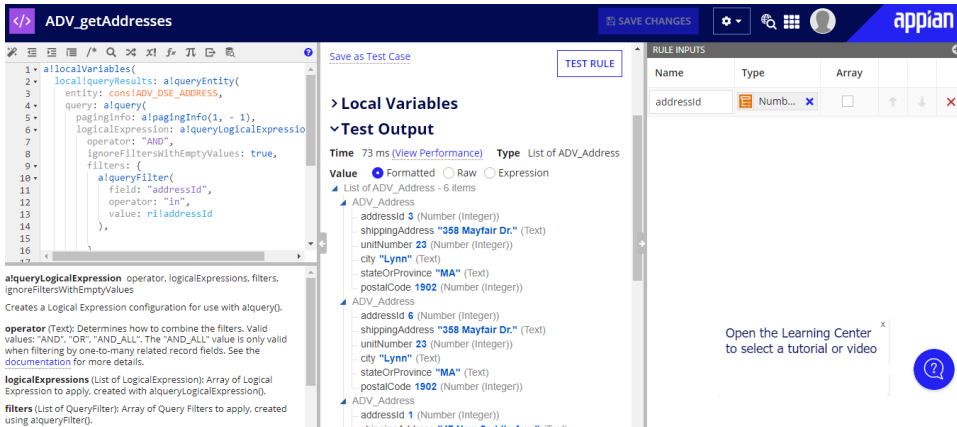
Save In *

 ADV Expression Rules 

Cre  ADV Expression Rules

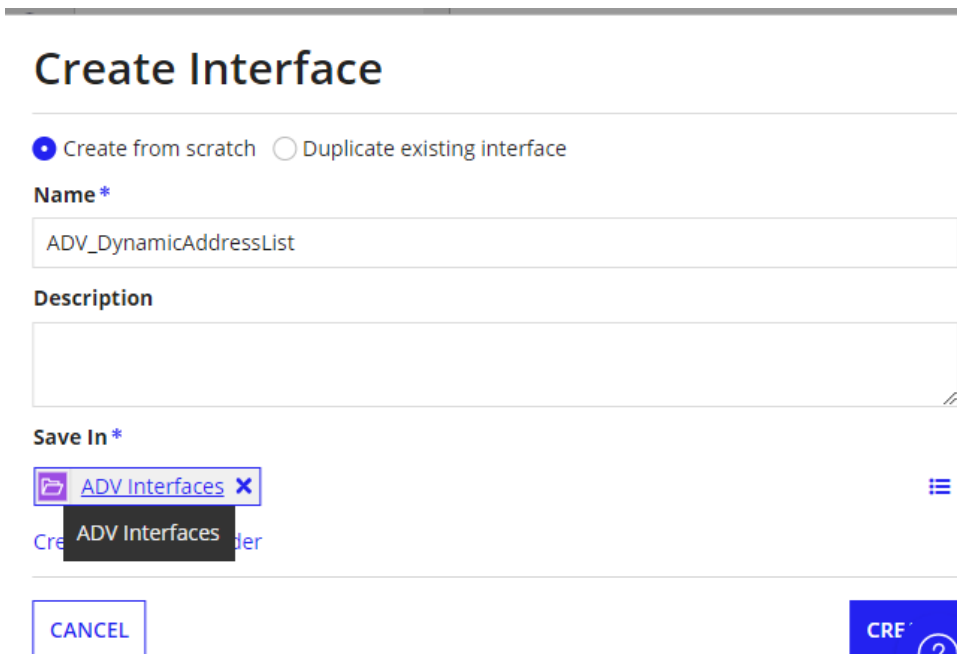
CANCEL

CRE 

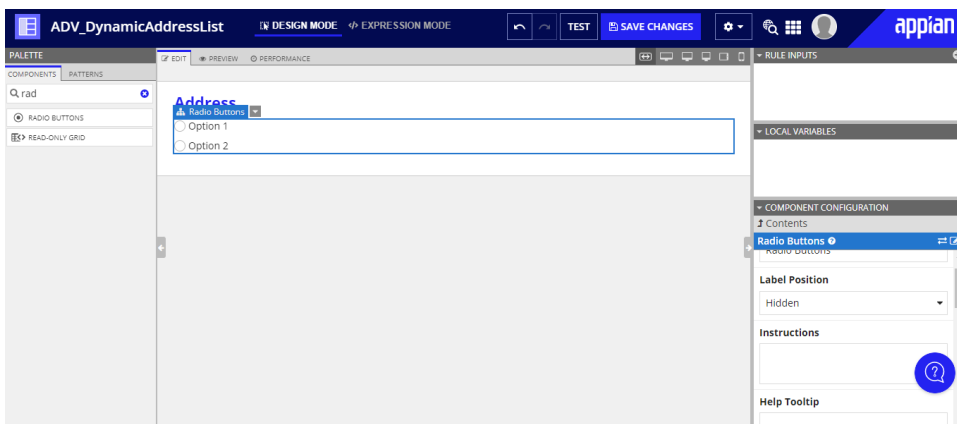


Part 2 – Build the Interface with the Dynamic Component

Create an Interface with Radio Buttons



Configure the Rule Inputs and Local Variables



New Rule Input

Name *

Type *

ADV_Address ✕

Array (multiple values)

CANCEL

CREATE

The screenshot shows the Appian Rule Designer interface. The 'INTERFACE DEFINITION' pane on the left contains the following code:

```

1. a!localVariables(
2.   local!locationsList: rule!ADV_getAddresses(addressId: NULL),
3.
4.   {
5.     }
6. )

```

The 'PREVIEW' pane shows a radio button group labeled 'Address' with two options: 'Option 1' and 'Option 2'. The 'RULE INPUTS' pane on the right shows the configuration for the 'address' input, which is currently set to 'null'. Below the 'LOCAL VARIABLES' section, a table lists the 'locationsList' with 6 items, each containing an address ID and a shipping address.

Name	Value
locationsList (6...)	[[addressId=3, shi...
[1]	[addressId=3, shi...
[2]	[addressId=6, shi...
[3]	[addressId=1, shi...
[4]	[addressId=4, shi...
[5]	[addressId=2, shi...
[6]	[addressId=5, shi...

Below the code editor, there is a section for 'a!localVariables' with a description: 'The local variable to use when evaluating the given expression. Use the local domain to define and reference individual variables. By default, a local variable will automatically update when any variables it references are changed. To change the way variables are updated, use the a!refreshVariable function. Variables can be refreshed under the following conditions: after each reevaluation, periodically on an interval, or when other variables change.' Below this, there is a section for 'a!radioButtonField' with a description: 'Displays a limited set of choices from which the user must select one item and saves a value based on the selected choice. See documentation for more details.'

Configure the Labels and Values for Radio Buttons

The screenshot shows the Appian Rule Designer interface. The 'INTERFACE DEFINITION' pane on the left contains the following code:

```

1. a!localVariables(
2.   local!locationsList: rule!ADV_getAddresses(addressId: NULL),
3.
4.   {
5.     a!sectionLayout(
6.       label: "Address",
7.       contents: {
8.         a!radioButtonField(
9.           label: "Radio Buttons",
10.          labelPosition: "COLLAPSED",
11.          choiceLabels: local!locationsList,
12.          choiceValues: local!locationsList,
13.          saveInto: {},
14.          choiceLayout: "STACKED",
15.          validations: {}
16.        )
17.      }
18.     )
19.   }
20. )

```

The 'PREVIEW' pane shows a radio button group labeled 'Address' with six options, each corresponding to an address ID and a shipping address. The 'RULE INPUTS' pane on the right shows the configuration for the 'address' input, which is currently set to 'null'. Below the 'LOCAL VARIABLES' section, a table lists the 'locationsList' with 6 items, each containing an address ID and a shipping address.

Name	Value
locationsList (6...)	[[addressId=3, shi...
[1]	[addressId=3, shi...
[2]	[addressId=6, shi...
[3]	[addressId=1, shi...
[4]	[addressId=4, shi...
[5]	[addressId=2, shi...
[6]	[addressId=5, shi...

Below the code editor, there is a section for 'a!radioButtonField' with a description: 'Displays a limited set of choices from which the user must select one item and saves a value based on the selected choice. See documentation for more details.'

Format Addresses Using the a!for Each Function

ADV_DynamicAddress... DESIGN MODE EXPRESSION MODE TEST SAVE CHANGES appian

INTERFACE DEFINITION

```

1. aLocalVariables(
2.   localLocationsList: rule!ADV_getAddresses(addressId: NULL),
3. ) {
4.   aSectionLayout(
5.     label: "Address",
6.     contents: {
7.       aRadioButtonField(
8.         label: "Radio Buttons",
9.         labelPosition: "COLLAPSED",
10.        choiceLabels:
11.        aForEach(
12.          items: localLocationsList,
13.          expression: fvItem
14.        )
15.      )
16.    }
17.   )

```

Address

- [addressId=3, shippingAddress=358 Mayfair Dr., unitNumber=23, city=Lynn, stateOrProvince=MA, postalCode=1902]
- [addressId=6, shippingAddress=358 Mayfair Dr., unitNumber=23, city=Lynn, stateOrProvince=MA, postalCode=1902]
- [addressId=1, shippingAddress=47 New Saddle Ave., unitNumber=, city=Goose Creek, stateOrProvince=SC, postalCode=29445]
- [addressId=4, shippingAddress=47 New Saddle Ave., unitNumber=, city=Goose Creek, stateOrProvince=SC, postalCode=29445]
- [addressId=2, shippingAddress=7208 Oakland Drive, unitNumber=50, city=Ravenna, stateOrProvince=OH, postalCode=44266]
- [addressId=5, shippingAddress=7208 Oakland Drive, unitNumber=50, city=Ravenna, stateOrProvince=OH, postalCode=44266]

Rule Inputs

Name	Value
address	null

LOCAL VARIABLES

Name	Value
locationsList (6...)	[[addressId=3, shi...
[1]	[addressId=3, ship...
[2]	[addressId=6, ship...
[3]	[addressId=1, ship...
[4]	[addressId=4, ship...
[5]	[addressId=2, ship...
[6]	[addressId=5, ship...

if (condition, valueIfTrue, valueIfFalse)
Returns valueIfTrue if condition returns true; returns valueIfFalse otherwise.

Returns: Any Type

condition (Boolean): A test that determines whether valueIfTrue or valueIfFalse will be returned.

valueIfTrue (Any Type): The value to be returned if condition returns true.

valueIfFalse (Any Type): The value to be returned if condition returns false.

ADV_DynamicAddress... DESIGN MODE EXPRESSION MODE TEST SAVE CHANGES appian

INTERFACE DEFINITION

```

1. aLocalVariables(
2.   localLocationsList: rule!ADV_getAddresses(addressId: NULL),
3. ) {
4.   aSectionLayout(
5.     label: "Address",
6.     contents: {
7.       aRadioButtonField(
8.         label: "Radio Buttons",
9.         labelPosition: "COLLAPSED",
10.        choiceLabels:
11.        aForEach(
12.          items: localLocationsList,
13.          expression: fvItem.shippingAddress
14.        )
15.      )
16.    }
17.   )

```

Address

- 358 Mayfair Dr.
- 358 Mayfair Dr.
- 47 New Saddle Ave.
- 47 New Saddle Ave.
- 7208 Oakland Drive
- 7208 Oakland Drive

Rule Inputs

Name	Value
address	null

LOCAL VARIABLES

Name	Value
locationsList (6...)	[[addressId=3, shi...

if (condition, valueIfTrue, valueIfFalse)
Returns valueIfTrue if condition returns true; returns valueIfFalse otherwise.

Returns: Any Type

condition (Boolean): A test that determines whether valueIfTrue or valueIfFalse will be returned.

valueIfTrue (Any Type): The value to be returned if condition returns true.

valueIfFalse (Any Type): The value to be returned if condition returns false.

ADV_DynamicAddress... DESIGN MODE EXPRESSION MODE TEST SAVE CHANGES appian

INTERFACE DEFINITION

```

4. aLayout(
5.   "Address",
6.   a: {
7.     aRadioButtonField(
8.       label: "Radio Buttons",
9.       labelPosition: "COLLAPSED",
10.      choiceLabels:
11.      aForEach(
12.        items: localLocationsList,
13.        expression: fvItem.shippingAddress & " - " &
14.        if(isnull(fvItem.shippingAddress),null, " Unit #" & fvItem.unitN
15.      )
16.    }
17.   )
18.   aValues: localLocationsList.

```

Address

- 358 Mayfair Dr. Unit #23
- 358 Mayfair Dr. Unit #23
- 47 New Saddle Ave. Unit #
- 47 New Saddle Ave. Unit #
- 7208 Oakland Drive Unit #50
- 7208 Oakland Drive Unit #50

Rule Inputs

Name	Value
address	null

LOCAL VARIABLES

Name	Value
locationsList (6...)	[[addressId=3, shi...
[1]	[addressId=3, ship...
[2]	[addressId=6, ship...
[3]	[addressId=1, ship...
[4]	[addressId=4, ship...
[5]	[addressId=2, ship...
[6]	[addressId=5, ship...

if (condition, valueIfTrue, valueIfFalse)
Returns valueIfTrue if condition returns true; returns valueIfFalse otherwise.

Returns: Any Type

condition (Boolean): A test that determines whether valueIfTrue or valueIfFalse will be returned.

valueIfTrue (Any Type): The value to be returned if condition returns true.

valueIfFalse (Any Type): The value to be returned if condition returns false.

ADV_DynamicAddress... DESIGN MODE EXPRESSION MODE TEST SAVE CHANGES appian

INTERFACE DEFINITION

```

4. aLayout(
5.   "Address",
6.   a: {
7.     aRadioButtonField(
8.       label: "Radio Buttons",
9.       labelPosition: "COLLAPSED",
10.      choiceLabels:
11.      aForEach(
12.        items: localLocationsList,
13.        expression: fvItem.shippingAddress & " - " &
14.        if(isnull(fvItem.shippingAddress),null, " Unit #" & fvItem.unitN
15.        & " - " & fvItem.city & " - " & fvItem.stateOrProvince
16.        & " - " & fvItem.postalCode
17.      )
18.    }

```

Address

- 358 Mayfair Dr. Unit #23 Lynn, MA 1902
- 358 Mayfair Dr. Unit #23 Lynn, MA 1902
- 47 New Saddle Ave. Unit # Goose Creek, SC 29445
- 47 New Saddle Ave. Unit # Goose Creek, SC 29445
- 7208 Oakland Drive Unit #50 Ravenna, OH 44266
- 7208 Oakland Drive Unit #50 Ravenna, OH 44266

Rule Inputs

Name	Value
address	null

LOCAL VARIABLES

Name	Value
locationsList (6...)	[[addressId=3, shi...
[1]	[addressId=3, ship...
[2]	[addressId=6, ship...
[3]	[addressId=1, ship...
[4]	[addressId=4, ship...
[5]	[addressId=2, ship...
[6]	[addressId=5, ship...

if (condition, valueIfTrue, valueIfFalse)
Returns valueIfTrue if condition returns true; returns valueIfFalse otherwise.

Returns: Any Type

condition (Boolean): A test that determines whether valueIfTrue or valueIfFalse will be returned.

valueIfTrue (Any Type): The value to be returned if condition returns true.

valueIfFalse (Any Type): The value to be returned if condition returns false.

Configure the Selected Value and Save Selection To Fields

ADV_DynamicAddressList DESIGN MODE EXPRESSION MODE TEST SAVE CHANGES appian

EDIT PREVIEW PERFORMANCE

Address
Radio Buttons

- 358 Mayfair Dr. Unit #23 Lynn, MA 1902
- 358 Mayfair Dr. Unit #23 Lynn, MA 1902
- 47 New Saddle Ave. Unit # Goose Creek, SC 29445
- 47 New Saddle Ave. Unit # Goose Creek, SC 29445
- 7208 Oakland Drive Unit #50 Ravenna, OH 44266
- 7208 Oakland Drive Unit #50 Ravenna, OH 44266

RULE INPUTS

Name	Value
address	[addressid=1, ship...
addressid	1
shippingAd...	47 New Saddle Ave.
unitNumber	null
city	Goose Creek
stateOrProv...	SC
postalCode	29445

LOCAL VARIABLES

COMPONENT CONFIGURATION

Contents

Radio Buttons

locallocationsList

Selected Value

riladdress

Save Selection To

riladdress