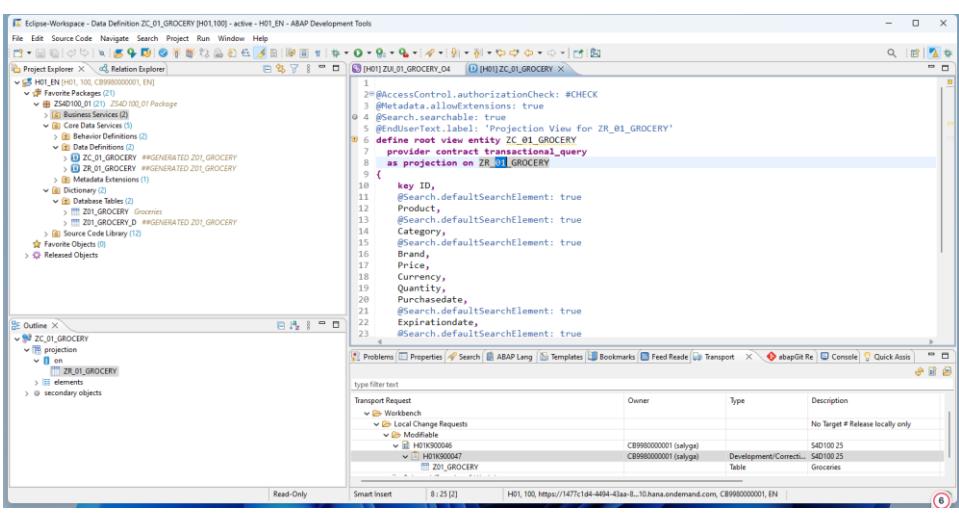
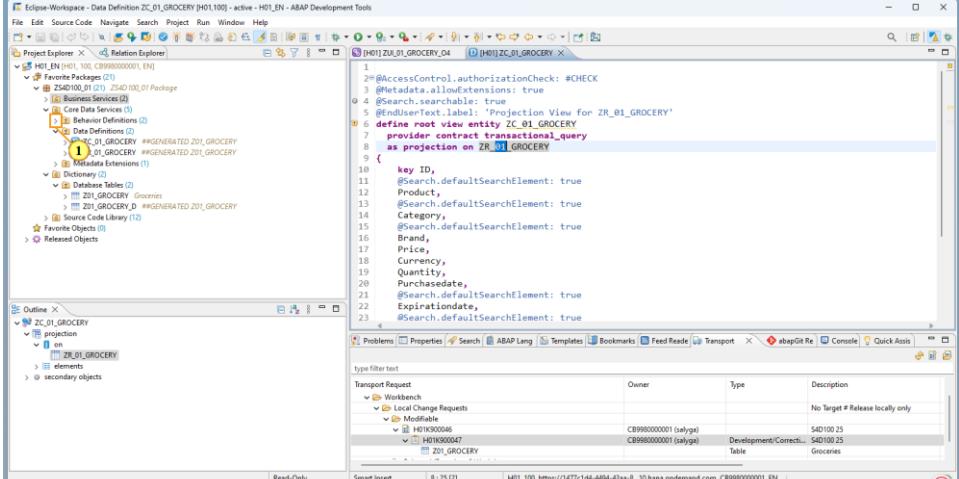
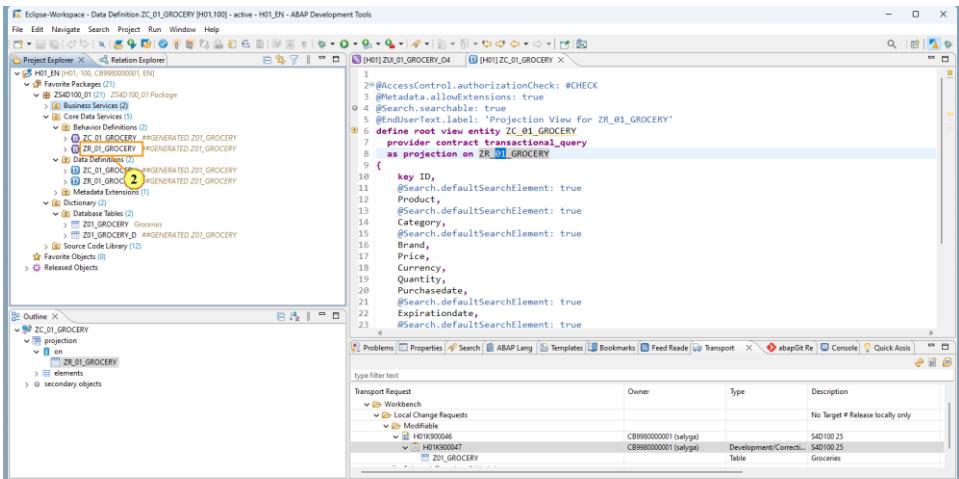
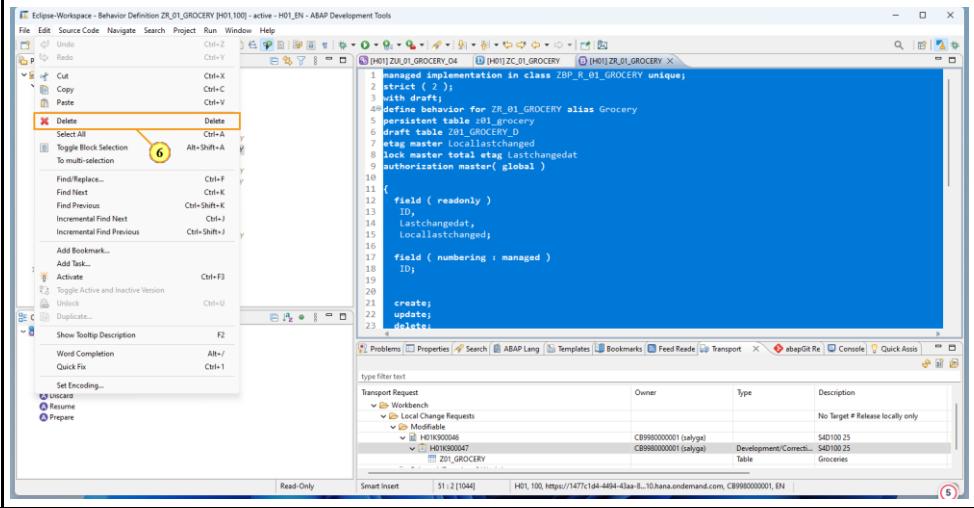
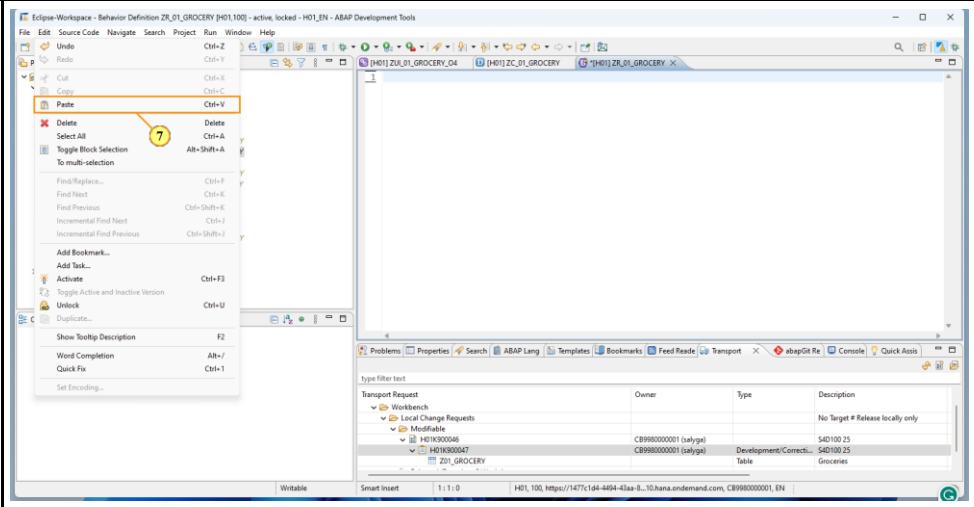
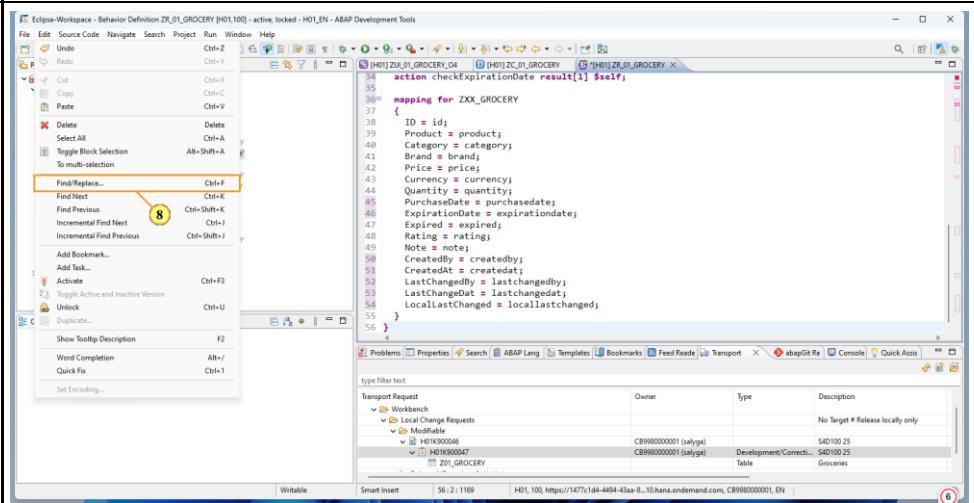
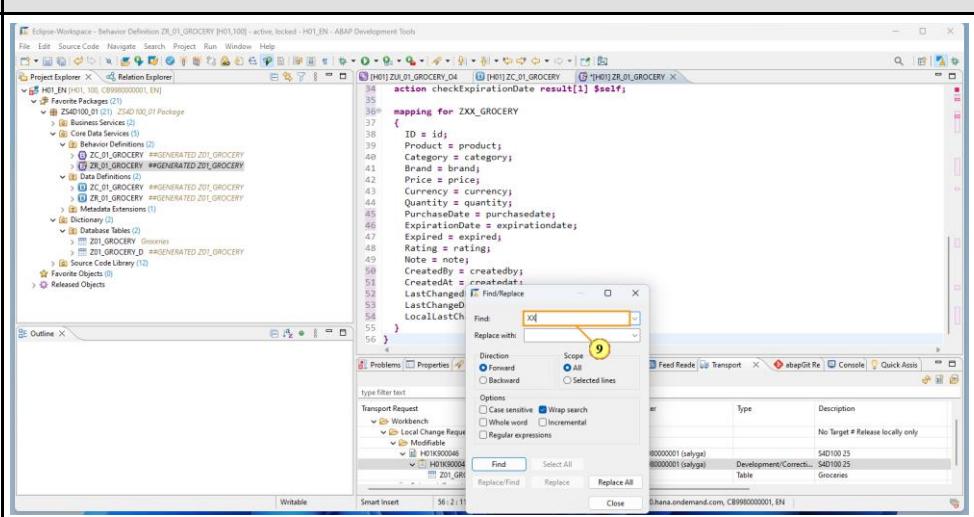
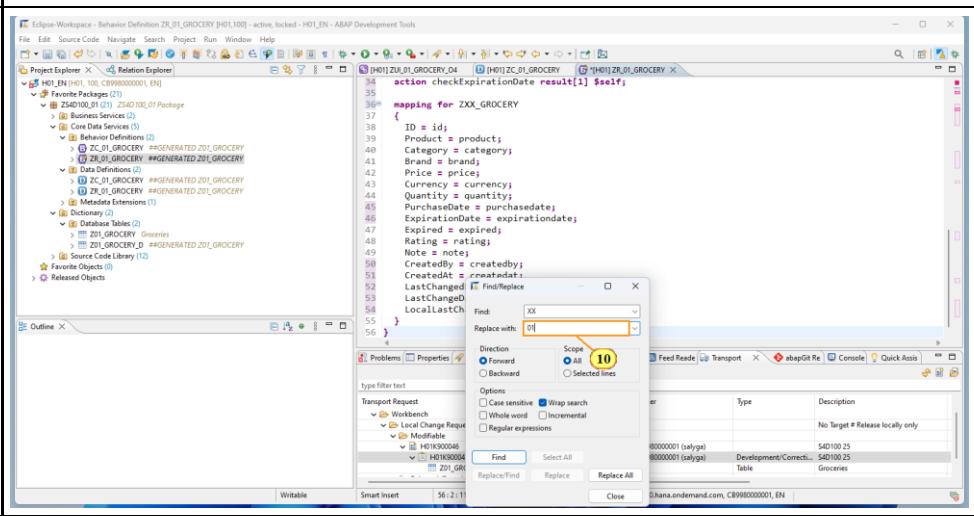
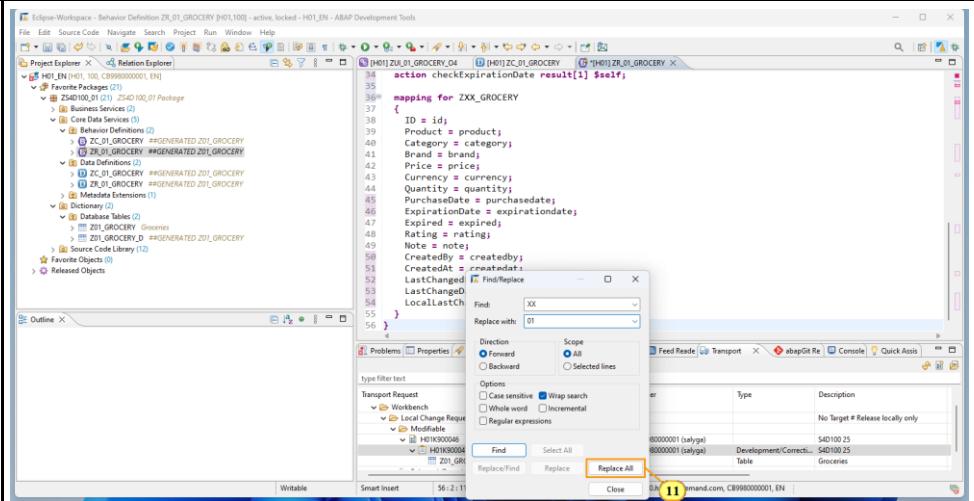


## Modify Behavior

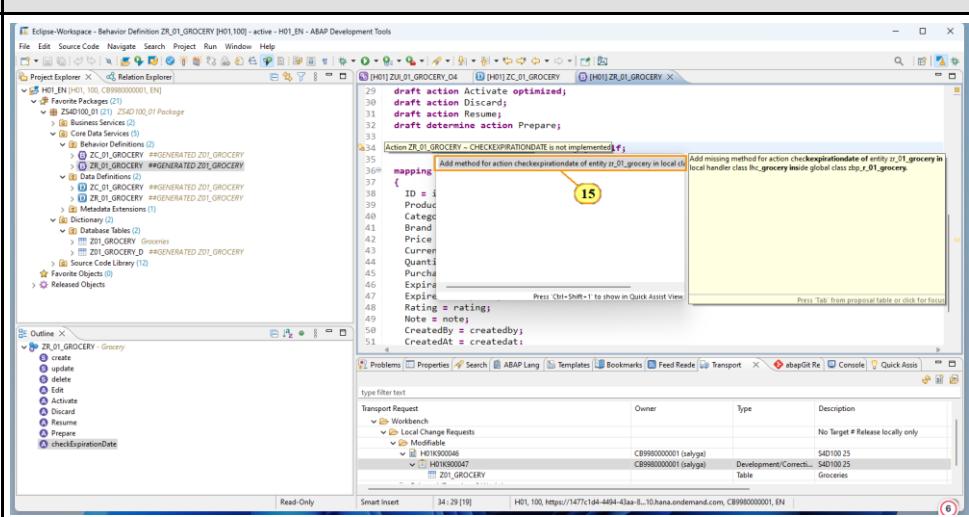
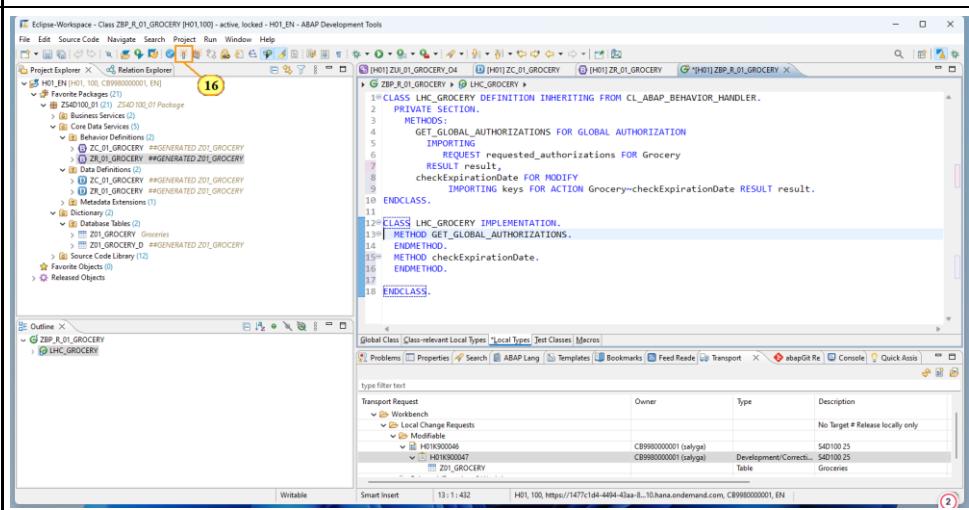
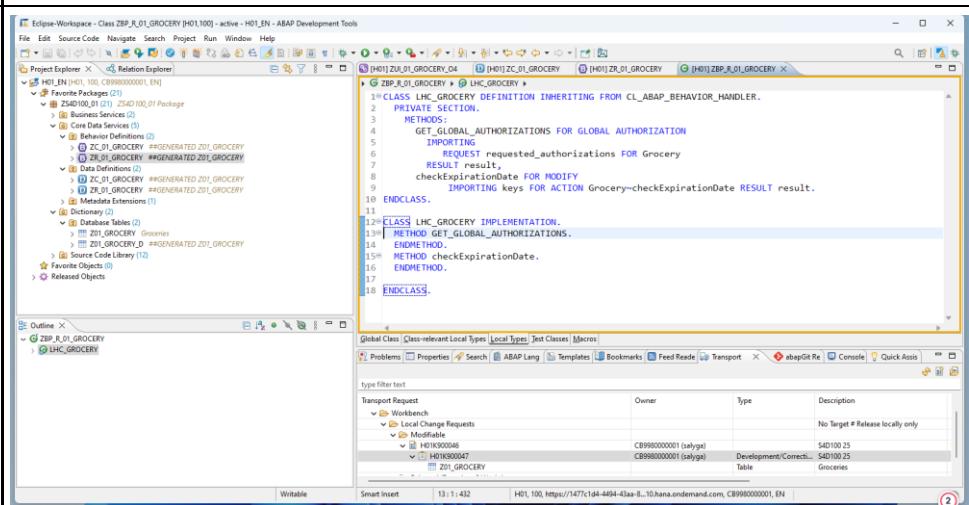
Explanation	Screenshot												
<p> Modify the behavior definition ZR_01_GROCERY to add action check checkExpirationDate and to specify read-only fields.</p> <p>To learn more about how to modify behavior, follow this interactive tutorial.</p>	 <pre> Eclipse-Workspace - Data Definition ZC_D1_GROCERY [H01,100] - active - H01_EN - ABAP Development Tools File Edit Source Code Navigate Search Project Run Window Help Project Explorer [H01] Relation Explorer [H01] ZU1_GROCERY_04 [H01] ZC_D1_GROCERY [H01] ZU1_GROCERY_04 [H01] ZC_D1_GROCERY 2 #AccessControl.authorizationCheck: #CHECK 3 #Metadata.allowExtensions: true 4 #Search.searchable: true 5 #EdmUserText.label: 'Projection View for ZR_01_GROCERY' 6 define root view entity ZC_01_GROCERY 7 provider contract transactional_query 8 as projection on ZR_01_GROCERY 9 ( 10   key ID, 11   @Search.defaultSearchElement: true 12   Product, 13   @Search.defaultSearchElement: true 14   Category, 15   @Search.defaultSearchElement: true 16   Brand, 17   Price, 18   Currency, 19   Quantity, 20   Purchasedate, 21   @Search.defaultSearchElement: true 22   Expirationdate, 23   @Search.defaultSearchElement: true </pre> <p>Transport Request</p> <table border="1"> <thead> <tr> <th>Owner</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>C998000001 (salyga)</td> <td>S4D100 25</td> <td>No Target # Release locally only</td> </tr> <tr> <td>C998000001 (salyga)</td> <td>S4D100 25</td> <td>Development/Correct...</td> </tr> <tr> <td></td> <td>Table</td> <td>Groceries</td> </tr> </tbody> </table>	Owner	Type	Description	C998000001 (salyga)	S4D100 25	No Target # Release locally only	C998000001 (salyga)	S4D100 25	Development/Correct...		Table	Groceries
Owner	Type	Description											
C998000001 (salyga)	S4D100 25	No Target # Release locally only											
C998000001 (salyga)	S4D100 25	Development/Correct...											
	Table	Groceries											
<p>1. To expand the <i>Behavior Definitions</i> items pane, choose the arrow.</p>													
<p>2. Choose the ZR_01_GROCERY with the right-click.</p>													

Explanation	Screenshot
<p>3. Choose Open.</p>	
<p>4. To replace the code in the behavior definition file, choose <i>Copy To Clipboard</i>.</p>	
<p>5. Choose <i>Edit &gt; Select All</i>.</p>	

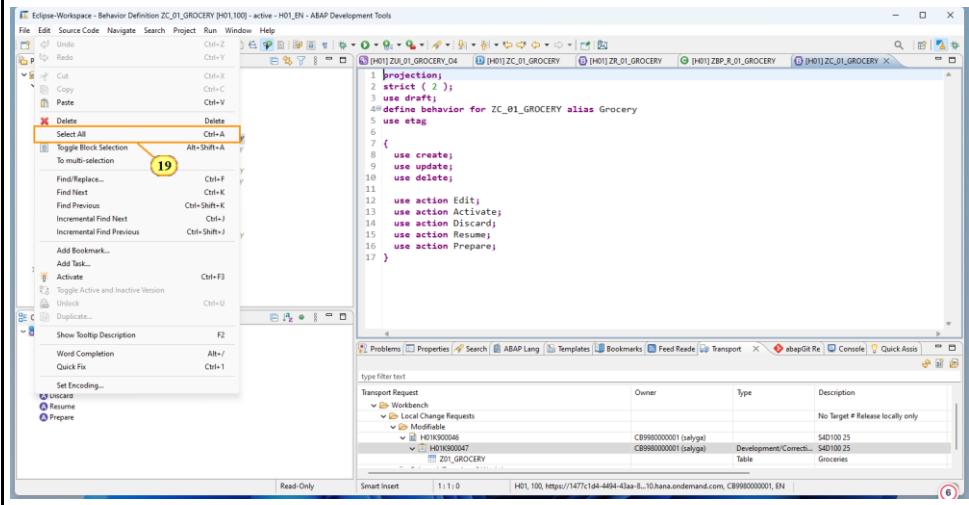
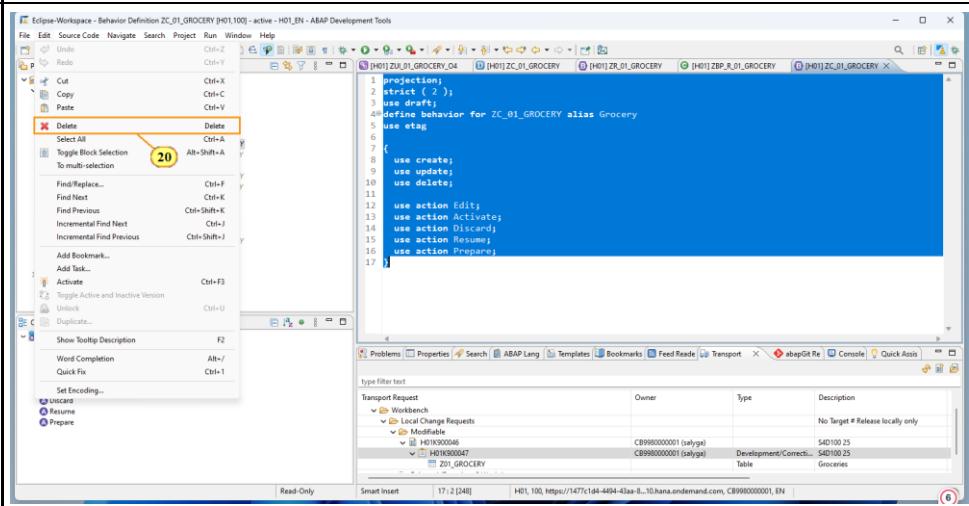
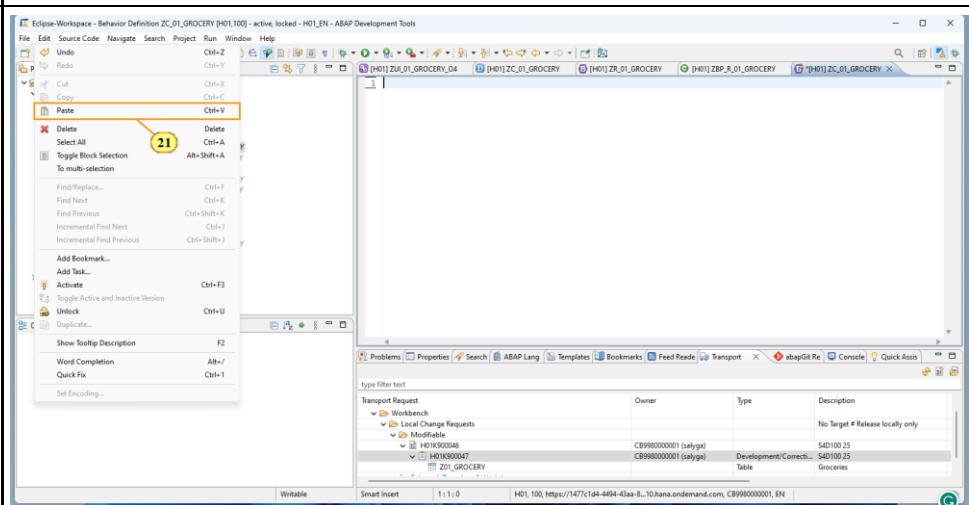
Explanation	Screenshot
<p>6. Choose <i>Edit &gt; Delete</i>.</p>	
<p>7. Choose <i>Edit &gt; Paste</i>.</p>	
<p>8. Choose <i>Edit &gt; Find/Replace</i>.</p>	

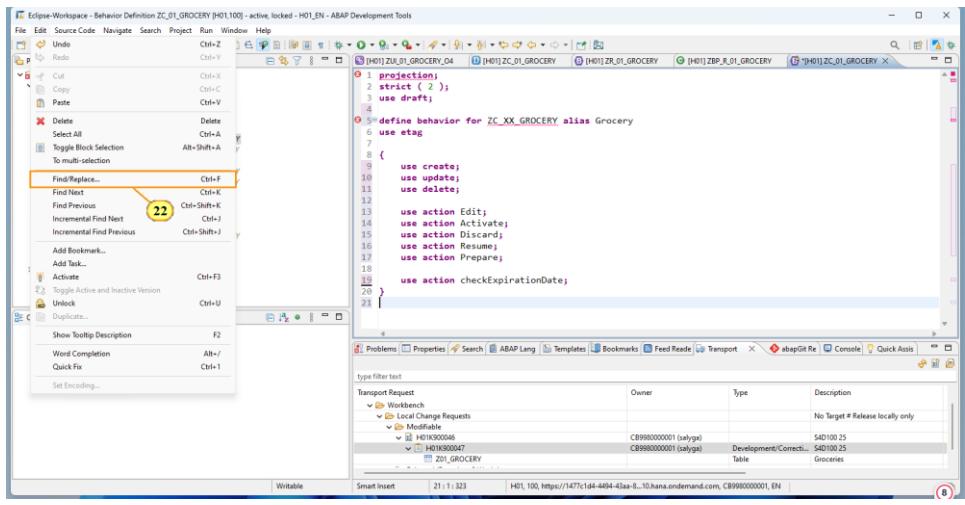
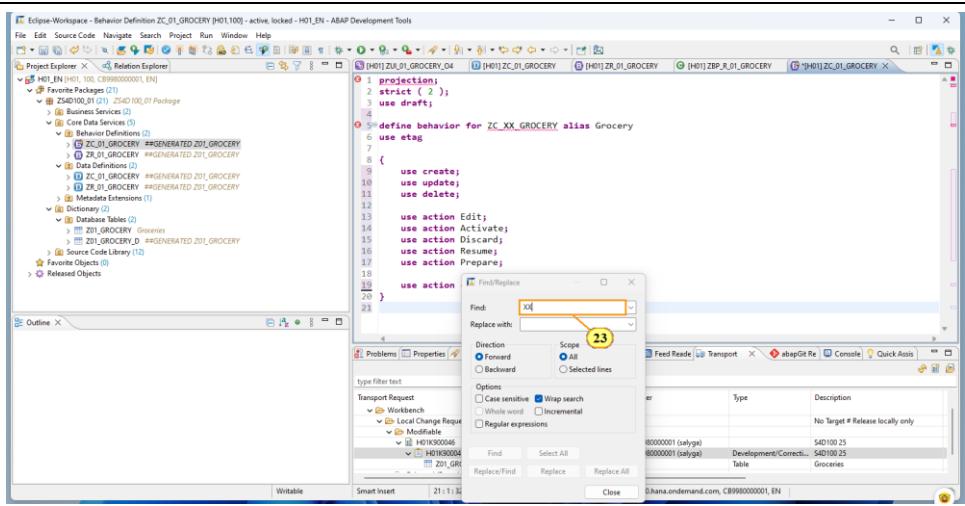
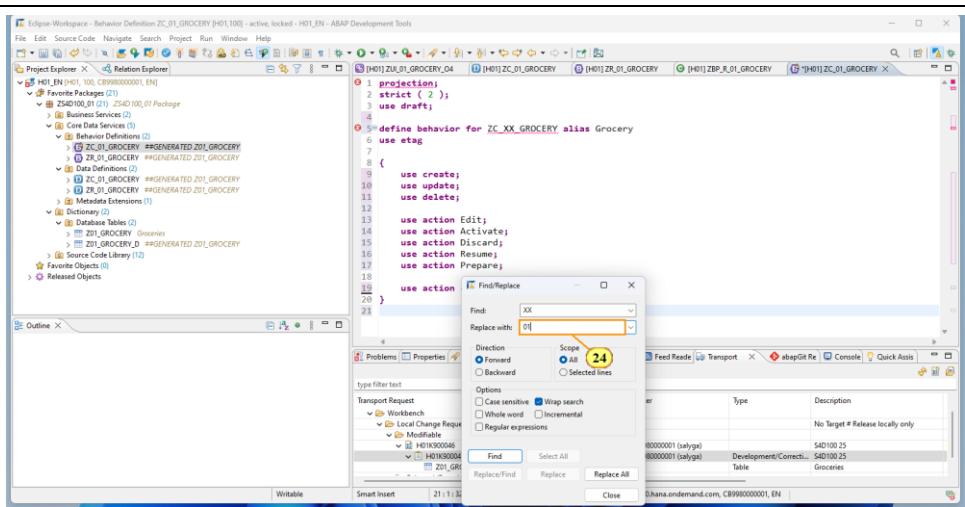
Explanation	Screenshot
<p>9. In the <i>Find</i> field, enter <b>XX</b>.</p>	 <p>The screenshot shows the Eclipse-Workspace - Behavior Definition ZR_01_GROCERY (H01100) - active, locked - H01_EN - ABAP Development Tools interface. The central area displays an ABAP code editor with the following code snippet:</p> <pre> action checkExpirationDate result[1] \$self;   mapping for ZX_GROCERY   {     ID = id;     Product = product;     Category = category;     Brand = brand;     Price = price;     Currency = currency;     Quantity = quantity;     Purchasedate = purchasedate;     Expirationdate = expirationdate;     Expired = expired;     Rating = rating;     Note = note;     Createdby = createdby;     Createdat = createdat;     Lastchanged = lastchanged;     Locallastch = locallastch;   } } </pre> <p>Below the code editor is a 'Find/Replace' dialog box. The 'Find:' field contains 'XX'. A yellow circle with the number '9' is placed over this field.</p>
<p>10. In the <i>Replace with</i> field, enter <b>01</b>.</p>	 <p>The screenshot shows the same workspace and code editor as the previous row. The 'Replace with:' field in the 'Find/Replace' dialog now contains '01'. A yellow circle with the number '10' is placed over this field.</p>
<p>11. Choose <i>Replace All</i>.</p>	 <p>The screenshot shows the same workspace and code editor. The 'Replace All' button in the 'Find/Replace' dialog is highlighted with a yellow box. A yellow circle with the number '11' is placed over this button.</p>

Explanation	Screenshot
12. Choose Close.	
13. Choose Activate.	
14. Choose warning in margin.	

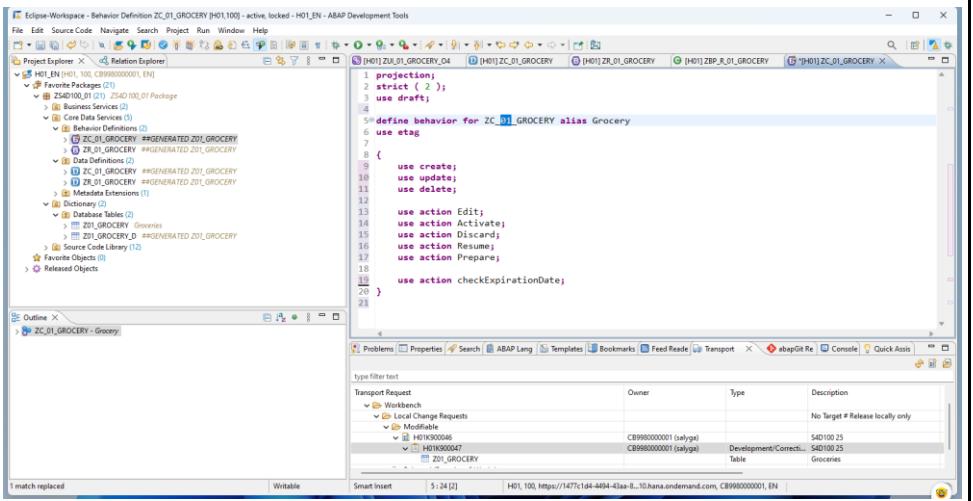
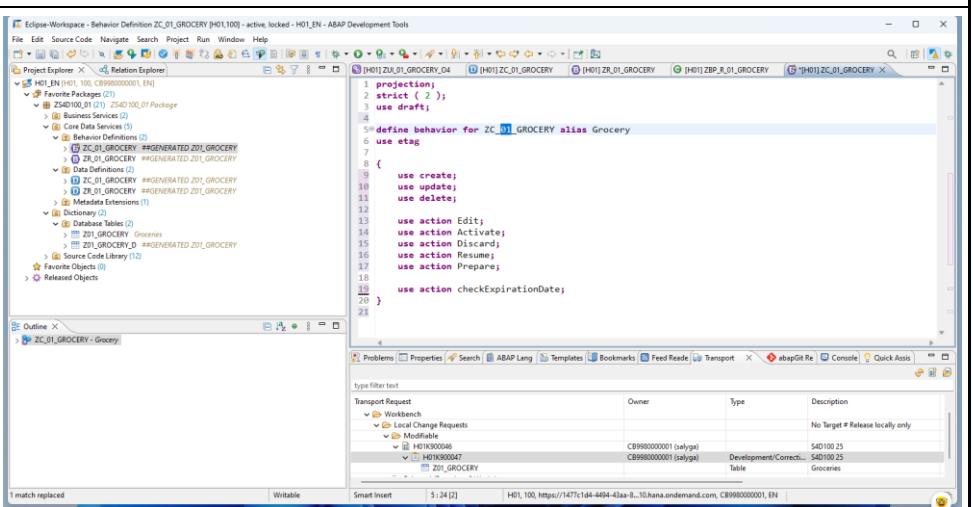
Explanation	Screenshot
<p>15. Double-click on <i>Add method for action checkexpirationdate of entity zr_01_grocery in local class lhc_grocery.</i></p>	
<p>16. Choose <i>Activate</i>.</p>	
<p>This creates method <code>checkExpirationDate</code> in local class <code>LHC_GROCERY</code> of implementation class <code>ZBPR_01_GROCERY</code>.</p>	

Explanation	Screenshot
<p>17. Choose <b>ZC_01_GROCERY</b> with the double-click.</p>	<pre> Eclipse-Workspace - Class ZBP_P_01_GROCERY [H01100] - active - H01_EN - ABAP Development Tools File Edit Source Code Navigate Search Project Run Window Help Project Explorer Relation Explorer H01_IN [H01_100_C899000001_EN]   Favorite Packages (2)     ZS40000001 (ZS40000001 Package)       Business Services (2)         Core Data Services (3)           Behavior Definitions (2)             ZC_01_GROCERY #GENERATED_Z01_GROCERY             ZP_R_01_GROCERY #GENERATED_Z01_GROCERY           Data Definitions (1)             ZC_01_GROCERY (17) #GENERATED_Z01_GROCERY             ZP_R_01_GROCERY #GENERATED_Z01_GROCERY         Metadata Extensions (1)       Dictionary (2)       Database Tables (2)         ZC_01_GROCERY_Groceries         ZP_R_01_GROCERY_D ##GENERATED_Z01_GROCERY       Source Code Library (12)       Favorite Objects (0)       Released Objects Outline ZC_01_GROCERY   ZC_01_GROCERY - Grocery     create     update     delete     Edit     Activate     Discard     Resume     Prepare </pre> <pre> [H01]ZU_01_GROCERY [H01]ZC_01_GROCERY [H01]ZR_01_GROCERY [H01]ZBP_R_01_GROCERY 1 CLASS LHC_GROCERY DEFINITION INHERITING FROM CL_ABAP_BEHAVIOR_HANDLER. 2 PRIVATE SECTION. 3 METHODS: 4   GET_GLOBAL_AUTHORIZATIONS FOR GLOBAL AUTHORIZATION 5   IMPORTING 6     REQUEST requested_authorization FOR Grocery 7   RESULT result, 8     IMPORTING keys for ACTION Grocery=checkExpirationDate RESULT result. 9   ENDCLASS. 10 11 CLASS LHC_GROCERY IMPLEMENTATION. 12 METHOD GET_GLOBAL_AUTHORIZATIONS. 13   IMPORTING 14   RESULT result. 15   IMPORTING keys for ACTION Grocery=checkExpirationDate. 16   ENDMETHOD. 17 18 ENDCLASS. </pre> <pre> Global Class Class-relevant Local Types Local Types Test Classes Macros Problems Properties Search ABAP Lang Templates Bookmarks Feed Reader Transport abapGit Re Console Quick Assis Transport Request Owner Type Description   Local Change Requests     Modifiable       H01X000046 CB998000001 (svygal) S4D100 25       H01X000047 CB998000001 (svygal) Development/Correct... S4D100 25       Z01_GROCERY Table Groceries </pre>
<p>This enables the action <code>checkExpirationDate</code> in the behavior definition <b>ZC_01_GROCERY</b>.</p>	<pre> Eclipse-Workspace - Behavior Definition ZC_01_GROCERY [H01100] - active - H01_IN - ABAP Development Tools File Edit Source Code Navigate Search Project Run Window Help Project Explorer Relation Explorer H01_IN [H01_100_C899000001_EN]   Favorite Packages (2)     ZS40000001 (ZS40000001 Package)       Business Services (2)         Core Data Services (3)           Behavior Definitions (2)             ZC_01_GROCERY #GENERATED_Z01_GROCERY             ZP_R_01_GROCERY #GENERATED_Z01_GROCERY           Data Definitions (1)             ZC_01_GROCERY #GENERATED_Z01_GROCERY             ZP_R_01_GROCERY #GENERATED_Z01_GROCERY         Metadata Extensions (1)       Dictionary (2)       Database Tables (2)         ZC_01_GROCERY_Groceries         ZP_R_01_GROCERY_D ##GENERATED_Z01_GROCERY       Source Code Library (12)       Favorite Objects (0)       Released Objects Outline ZC_01_GROCERY - Grocery   ZC_01_GROCERY - Grocery     create     update     delete     Edit     Activate     Discard     Resume     Prepare </pre> <pre> [H01]ZU_01_GROCERY [H01]ZC_01_GROCERY [H01]ZR_01_GROCERY [H01]ZBP_R_01_GROCERY [H01]ZC_01_GROCERY 1 preselect 2 strict (2); 3 use draft; 4 define behavior for ZC_01_GROCERY alias Grocery 5 use etag 6 7 { 8   use create; 9   use update; 10  use delete; 11 12  use action Edit; 13  use action Activate; 14  use action Discard; 15  use action Resume; 16  use action Prepare; 17 } </pre> <pre> Problems Properties Search ABAP Lang Templates Bookmarks Feed Reader Transport abapGit Re Console Quick Assis Transport Request Owner Type Description   Local Change Requests     Modifiable       H01X000046 CB998000001 (svygal) S4D100 25       H01X000047 CB998000001 (svygal) Development/Correct... S4D100 25       Z01_GROCERY Table Groceries </pre>
<p>18. To replace the code in the behavior definition file, choose <b>Copy To Clipboard</b>.</p>	<p>Building an ABAP RESTful Application Program: Building an ABAP RESTful Application Program</p> <p>3. Generate the action method <code>checkExpirationDate</code>.</p> <p>a. In the behavior definition file <code>ZR_XX_GROCERY</code>, find the line that defines the action <code>checkExpirationDate</code>. It will have a warning that the implementation is missing. Click on the warning in the margin to see a pop-up that states: <i>Add method for action checkExpirationDate...</i> Double-click this line to generate the method in the implementation class <code>ZBP_R_XX_GROCERY</code>.</p> <p>b. The implementation class <code>ZBP_R_XX_GROCERY</code> will open in the editor. Press <b>Activate</b> (<code>Ctrl+F3</code>).</p> <p>4. To enable the action, add a use action <code>checkExpirationDate</code>; statement to behavior definition file <code>ZC_XX_GROCERY</code>.</p> <p>a. Double-click on the behavior definition file <code>ZC_XX_GROCERY</code> in the Project Explorer to open the file.</p> <p>b. Replace the code in the behavior definition file by copying the following code:</p> <pre> Code snippet   Copy To Clipboard (18) </pre>

Explanation	Screenshot
<p>19. Choose <i>Edit &gt; Select All</i>.</p>	 <pre data-bbox="476 303 1429 774"> projection; strict ( 2 ); use draft; define behavior for ZC_01_GROCERY alias Grocery use etag {     use create;     use update;     use delete;     use action Edit;     use action Activate;     use action Discard;     use action Resume;     use action Prepare; } </pre>
<p>20. Choose <i>Edit &gt; Delete</i>.</p>	 <pre data-bbox="476 808 1429 1078"> projection; strict ( 2 ); use draft; define behavior for ZC_01_GROCERY alias Grocery use etag {     use create;     use update;     use delete;     use action Edit;     use action Activate;     use action Discard;     use action Resume;     use action Prepare; } </pre>
<p>21. Choose <i>Edit &gt; Paste</i>.</p>	 <pre data-bbox="476 1313 1429 1583"> projection; strict ( 2 ); use draft; define behavior for ZC_01_GROCERY alias Grocery use etag {     use create;     use update;     use delete;     use action Edit;     use action Activate;     use action Discard;     use action Resume;     use action Prepare; } </pre>

Explanation	Screenshot
<p>22. Choose <i>Edit &gt; Find/Replace</i>.</p>	
<p>23. In the <i>Find</i> field, enter <b>XX</b>.</p>	
<p>24. In the <i>Replace with</i> field, enter <b>01</b>.</p>	

Explanation	Screenshot
25. Choose Replace All.	<p>The screenshot shows the SAP ABAP Development Tools interface. A 'Replace' dialog box is open in the foreground, with the 'Replace All' button highlighted. In the background, the code editor shows an ABAP class definition for 'ZC_XX_GROCERY' with several 'use action' statements. The 'Find' field contains 'XX' and the 'Replace with' field contains '01'. The 'Replace All' button is circled in yellow.</p>
26. Choose Close.	<p>The screenshot shows the SAP ABAP Development Tools interface. A 'Replace' dialog box is open in the foreground, with the 'Close' button highlighted. In the background, the code editor shows the same ABAP class definition as the previous screenshot, with the 'Replace All' operation completed. The 'Replace All' button is circled in yellow.</p>
27. Choose Activate.	<p>The screenshot shows the SAP ABAP Development Tools interface. A 'Replace' dialog box is open in the foreground, with the 'Replace' button highlighted. In the background, the code editor shows the ABAP class definition with the 'use action' statements now replaced by 'use action Activate;'. The 'Replace' button is circled in yellow.</p>

Explanation	Screenshot
<p> The action checkExpirationDate is now enabled.</p>	 <pre data-bbox="473 287 1446 788"> 1 projection; 2 strict ( 2 ); 3 use draft; 4 5 define behavior for ZC_01_GROCERY alias Grocery 6 use etag 7 8 { 9   use create; 10  use update; 11  use delete; 12 13  use action Edit; 14  use action Activate; 15  use action Discard; 16  use action Resume; 17  use action Prepare; 18 19  use action checkExpirationDate; 20 } </pre>
<p> You have successfully modified behavior. This concludes the interactive tutorial.</p>	 <pre data-bbox="473 788 1446 1295"> 1 projection; 2 strict ( 2 ); 3 use draft; 4 5 define behavior for ZC_01_GROCERY alias Grocery 6 use etag 7 8 { 9   use create; 10  use update; 11  use delete; 12 13  use action Edit; 14  use action Activate; 15  use action Discard; 16  use action Resume; 17  use action Prepare; 18 19  use action checkExpirationDate; 20 } </pre>