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OAC Write-Back Functionality

Purpose statement

The scope of this document is to provide you with a quick step-by-step guide on how to configure and use Oracle Analytics Cloud Write-back.

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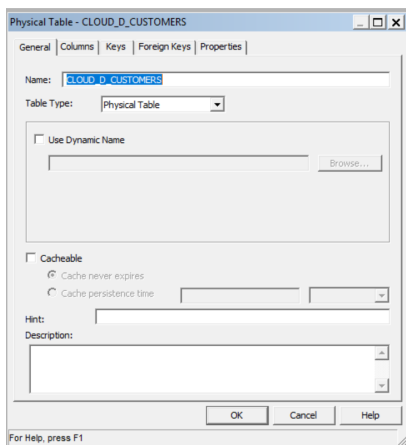
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Write-back in Oracle Analytics Cloud

- Write-back enables users to update your data directly from dashboards and analyses.

- Users with the 'Write Back to Database' privilege see write-back fields as editable fields in analyses. The values they enter are saved to the database. If a user doesn't have the 'Write Back to Database' privilege, then the write-back fields display as normal fields.

- If a user types a value in an editable field and clicks the write-back button, then the application executes the insert or update SQL command defined in the write-back template. If the command succeeds, the analysis is updated with the new value. If there is an error in either reading the template or in executing the SQL command, then an error message is displayed.

Steps for implementing the Write-back functionality:

- Open the data model (RPD file) with Oracle Analytics Cloud Developer Client Tool (Admin tool);

  File->Open->Offline-> Choose the RPD file

- In the Physical Layer, double-click the physical table that contains the column for which you want to enable write-back;

  In our example we'll want to enable the write-back functionality for **CUST_NAME** column from **CLOUD_D_CUSTOMER** table.
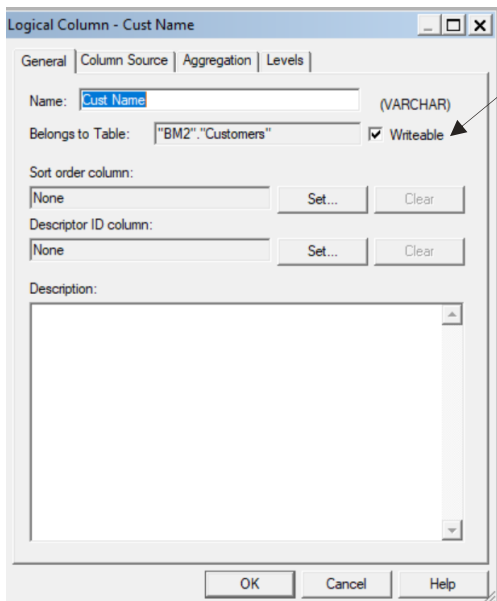

- On the General tab of the Physical Table dialog, ensure that Cacheable is not selected. (deselecting this option ensures that Oracle BI Presentation Services users can see updates immediately)
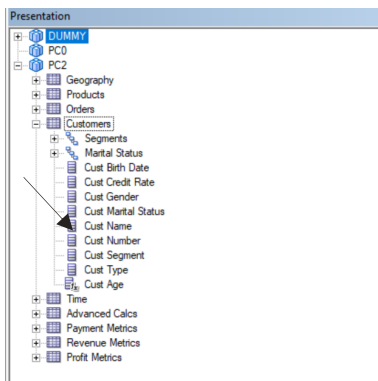
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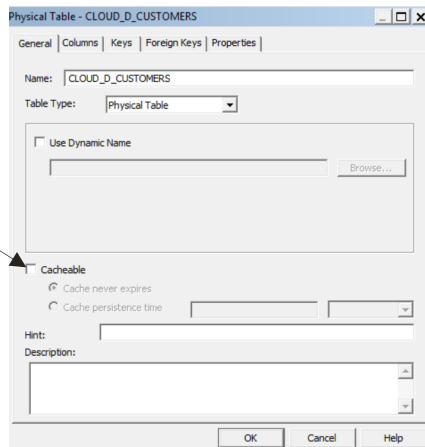
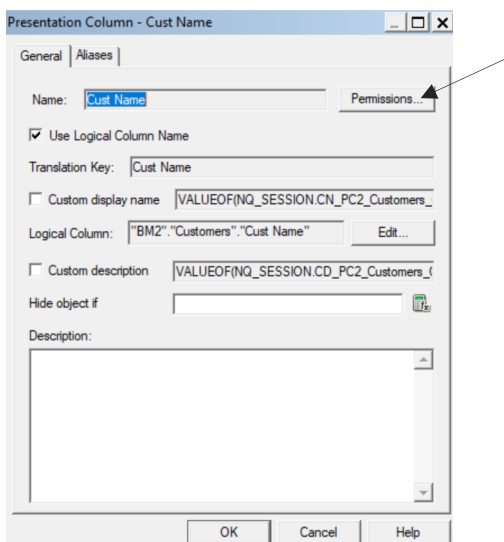- In the Business Model and Mapping Layer, double-click the corresponding logical column.
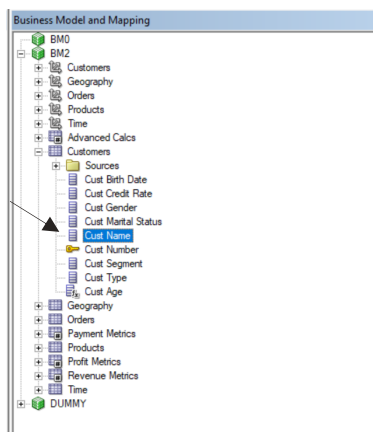
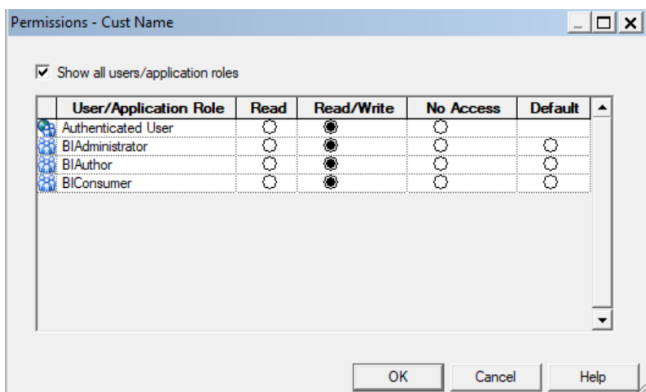- In the Logical column dialog, select **Writeable**, then click **OK.**

- In the Presentation Layer, double-click the column that corresponds to the logical column for which you enabled write-back.

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- In the Presentation column dialog, click **Permissions.**

- Select the Read/Write permission for the appropriate users and application roles.

- Save you changes.

2. Create a write-back template and copy it to your clipboard

```xml
<?xml version="1.0" encoding="utf-8" ?>
```

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```
<WebMessageTables xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
xmlns='oracle.bi.presentation/writebackschemas/v1'>

<WebMessageTable lang="en-us" system="WriteBack" table="Messages">

  <WebMessage name="SetQuotaUseID">

    <XML>

      <writeBack connectionPool="CP2">

        <insert></insert>

        <update>UPDATE CLOUD_D_CUSTOMERS SET CUST_NAME='@{cc2ecaed7ba69661d8}' WHERE
CUST_NUMBER=@{cc2ecaed7ba69661d8} </update>

      </writeBack>

    </XML>

  </WebMessage>

</WebMessageTable>

</WebMessageTables>
```

3. Apply your write-back template in Oracle Analytics Cloud

 Console->Service Administration->Configure System Settings-> add the writeback template in Writeback Template XML section-> Restart

4. Grant permissions to use write-back code:

    a.   Navigate to Classic home -> Administration->Manage Privilegies-> Scroll down to Write Back:

        - > Grant 'Write Back to Database' to Authenticated User.

        ->Grant 'Manage Write Back' to BI Service Administrator.

5. Open Classic Home
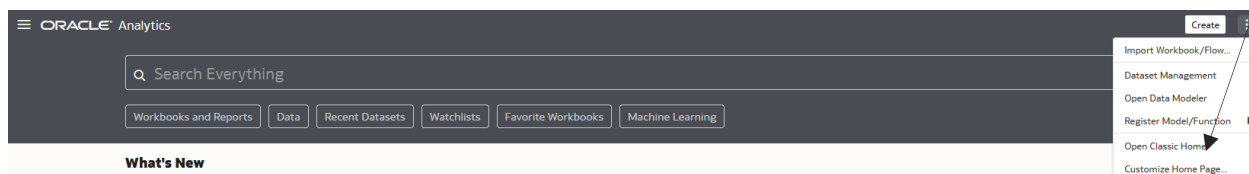
6. Go to Administration:
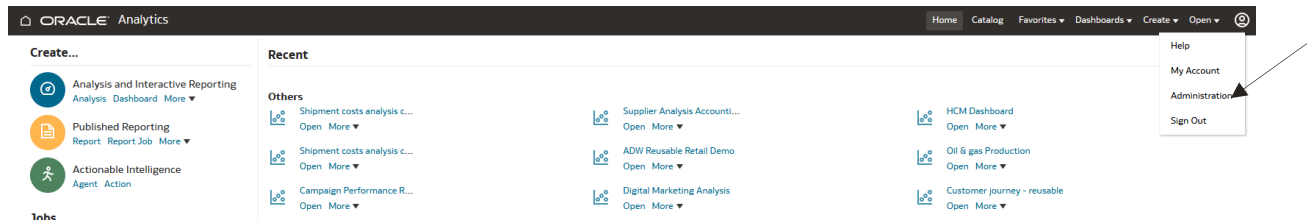
7. Go to Manage Privileges

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8. Go to Write Back

9. To enable write-back in columns:

a. In the analysis editor displays the Column Properties for the column on which you want to enable write-back;
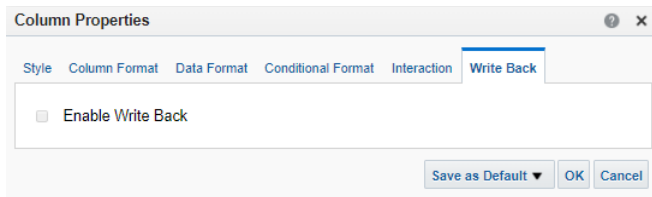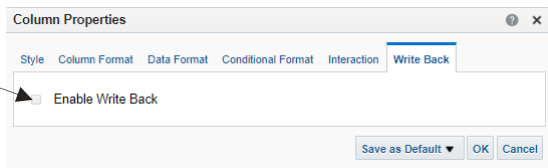

b. In the Column Properties dialog, click the **Write Back** tab.

If the column has been enabled for write-back in the repository, then the **Enable Write Back** box is available.

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b.   Select the **Enable Write Back** option.

d. Specify the value of other options if you want to change the default.

e. Save your change

6. To enable write-back in table views:

    a.   In the Analysis editor, open the table view for editing.

    b.   Click **View Properties**.

    c.   In the Table Properties dialog, click the **Write Back** tab.
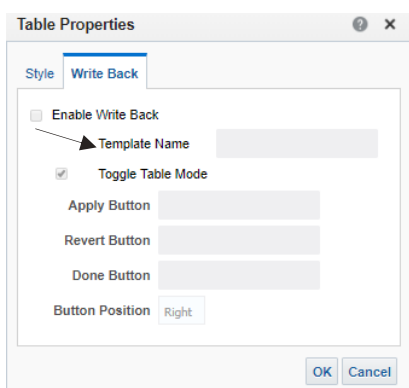

    d.   Select the **Enable Write Back** option.

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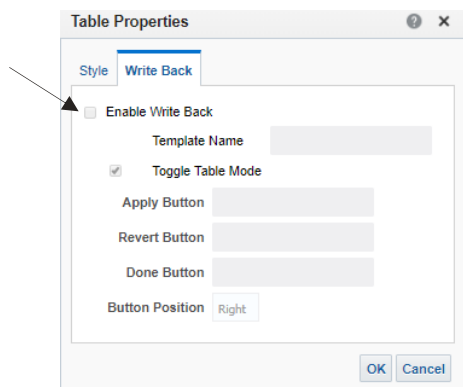
e. Select the **Template Name** box, specify the value of "WebMessage name=" in the write-back template that you specified in Step 2.

For example, the **Template Name** for the example template in Step 2 is 'SetQuotaUseID'.

f. Save your changes.

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