Oracle® Cloud
Using the Microsoft SQL Server Adapter

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Preface

Using the Microsoft SQL Server Adapter describes how to configure the Microsoft SQL Server Adapter as a connection in an integration in Oracle Integration Cloud Service.

Topics

• Audience
• Documentation Accessibility
• Related Resources
• Conventions

Audience

Using the Microsoft SQL Server Adapter is intended for developers who want to use the Microsoft SQL Server Adapter in integrations in Oracle Integration Cloud Service.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Resources

See these Oracle resources:

• Oracle Cloud
  http://cloud.oracle.com
• Using Oracle Integration Cloud Service
• Using the Oracle Mapper

Conventions

The following text conventions are used in this document:
<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td><strong>monospace</strong></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Getting Started with the Microsoft SQL Server Adapter

Review the following conceptual topics to learn about the Microsoft SQL Server Adapter and how to use it as a connection in integrations in Oracle Integration Cloud Service. A typical workflow of adapter and integration tasks is also provided.

Topics

- Microsoft SQL Server Adapter Capabilities
- What Application Version Is Supported?
- About Oracle Integration Cloud Service
- About Oracle Integration Cloud Service Connections
- About Oracle Integration Cloud Service Integrations
- About Microsoft SQL Server Use Cases
- Typical Workflow for Creating and Including an Adapter Connection in an Integration

Microsoft SQL Server Adapter Capabilities

The Microsoft SQL Server Adapter enables you to integrate the Microsoft SQL Server database residing behind the firewall of your on-premises environment with Oracle Integration Cloud Service through use of the on-premises connectivity agent. Use the Microsoft SQL Server Adapter to poll for new and updated records for processing in Oracle Integration Cloud Service. For example, any new record added to the Employee table in your Microsoft SQL Server database can be synchronized with Oracle HCM Cloud using Oracle Integration Cloud Service. In addition, use the Microsoft SQL Server Adapter to execute SQL queries or stored procedures in the Microsoft SQL Server database. For example, quotes in Oracle CPQ Cloud can be created as Orders in the on-premises Microsoft SQL Server database by sending SQL statements or stored procedures using the Microsoft SQL Server Adapter.

The Microsoft SQL Server Adapter provides the following capabilities:

- Support for invocation of stored procedures in the Microsoft SQL Server database.
- Support for execution of DML statements and SQL queries such as Select, Insert, Update, and Delete.

Select the Run a SQL Statement option on the Basic Info page of the Adapter Endpoint Configuration Wizard to execute simple SQL queries. For complex SQL queries, use stored procedures by selecting the Invoke a Stored Procedure option on the Basic Info page of the Adapter Endpoint Configuration Wizard. Stored procedures can reduce the complexity of a SQL query.

- Support for generating XSD from PureSQL. This feature generates an XSD from a PureSQL statement provided by dynamically querying on the table.
• Support for polling new and updated records for processing in the Microsoft SQL Server database. The Microsoft SQL Server Adapter supports distributed polling. Distributed polling helps eliminate duplicate polling of the same records.

• Support for a logical delete polling strategy. This strategy involves updating a special field on each row once it is processed.

To install the on-premises agent, see Downloading and Running the On-Premises Agent Installer in Using Oracle Integration Cloud Service.

Microsoft SQL Server Adapter is one of many predefined adapters included with Oracle Integration Cloud Service. You can configure Microsoft SQL Server Adapter as a target or invoke connection in an integration in Oracle Integration Cloud Service. For information about Oracle Integration Cloud Service, connections, and integrations, see the following sections:

• About Oracle Integration Cloud Service
• About Oracle Integration Cloud Service Connections
• About Oracle Integration Cloud Service Integrations

What Application Version Is Supported?

For information about which application version is supported by this adapter, see the adapter certification matrix:

Oracle Integration Adapters Certification

About Oracle Integration Cloud Service

Oracle Integration Cloud Service is a complete, secure, but lightweight integration solution that enables you to connect your applications in the cloud. It simplifies connectivity between your applications and connects both your applications that live in the cloud and your applications that still live on premises. Oracle Integration Cloud Service provides secure, enterprise-grade connectivity regardless of the applications you are connecting or where they reside.

Oracle Integration Cloud Service provides native connectivity to Oracle Software as a Service (SaaS) applications, such as Oracle Sales Cloud, Oracle RightNow Cloud, and so on. Oracle Integration Cloud Service adapters simplify connectivity by handling the underlying complexities of connecting to applications using industry-wide best practices. You only need to create a connection that provides minimal connectivity information for each system. Oracle Integration Cloud Service lookups map the different codes or terms used by the applications you are integrating to describe similar items (such as country or gender codes). Finally, the visual data mapper enables you to quickly create direct mappings between the trigger and invoke data structures. From the mapper, you can also access lookup tables and use standard XPath functions to map data between your applications.

Once you integrate your applications and activate the integrations to the runtime environment, the dashboard displays information about the running integrations so you can monitor the status and processing statistics for each integration. The dashboard measures and tracks the performance of your transactions by capturing and reporting key information, such as throughput, the number of messages processed successfully, and the number of messages that failed processing. You can also manage business identi-
fiers that track fields in messages and manage errors by integrations, connections, or specific integration instances.

About Oracle Integration Cloud Service Connections

Connections define information about the instances of each configuration you are integrating. Oracle Integration Cloud Service includes a set of predefined adapters, which are the types of applications on which you can base your connections, such as Oracle Sales Cloud, Oracle Eloqua Cloud, Oracle RightNow Cloud, and others. A connection is based on an adapter. For example, to create a connection to a specific RightNow Cloud application instance, you must select the Oracle RightNow adapter and then specify the WSDL URL, security policy, and security credentials to connect to it.

About Oracle Integration Cloud Service Integrations

Integrations are the main ingredient of Oracle Integration Cloud Service. An integration includes at least a trigger (source) connection (for requests sent to Oracle Integration Cloud Service) and invoke (target) connection (for requests sent from Oracle Integration Cloud Service to the target) and the field mapping between those two connections.

When you create your integrations, you build on the connections you already created by defining how to process the data for the trigger (source) and invoke (target) connections. This can include defining the type of operations to perform on the data, the business objects and fields against which to perform those operations, required schemas, and so on. To make this easier, the most complex configuration tasks are handled by Oracle Integration Cloud Service. Once your trigger (source) and invoke (target) connections are configured, the mappers between the two are enabled so you can define how the information is transferred between the trigger (source) and invoke (target) data structures for both the request and response messages.

About Microsoft SQL Server Use Cases

The Microsoft SQL Server can be used in scenarios such as the following:

You can create an integration that includes an SOAP Adapter connection on the source (inbound) side and a Microsoft SQL Server on the target (outbound) side. For example, when configuring the target Microsoft SQL Server, you can select a stored procedure that enables you to pass an employee ID as an input parameter from the SOAP Adapter to an on-premises SQL database to retrieve additional information about the employee (first name, last name, email ID, and so on). The request is sent to the on-premises agent for execution. The employee results are then returned to Oracle Integration Cloud Service.

Related Topics

• About Agents and Integrations Between On-Premises Applications and Oracle Integration Cloud Service
• Managing Agent Groups and the On-Premises Agent
Typical Workflow for Creating and Including an Adapter Connection in an Integration

You follow a very simple workflow to create a connection with an adapter and include the connection in an integration in Oracle Integration Cloud Service.

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<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Create the adapter connections for the applications you want to integrate. The connections can be reused in multiple integrations and are typically created by the administrator.</td>
<td>Creating a Microsoft SQL Server Adapter Connection</td>
</tr>
<tr>
<td>2</td>
<td>Create the integration. When you do this, you add source and target connections to the integration.</td>
<td>Creating an Integration and Adding the Microsoft SQL Server Adapter Connection to an Integration</td>
</tr>
<tr>
<td>3</td>
<td>Map data between the source connection data structure and the target connection data structure.</td>
<td>Mapping Data of Using Oracle Integration Cloud Service</td>
</tr>
<tr>
<td>4</td>
<td>Specify the primary business identifier to track a field across an integration flow during runtime.</td>
<td>Assigning Business Identifiers of Using Oracle Integration Cloud Service</td>
</tr>
<tr>
<td>5</td>
<td>(Optional) Create lookups that map the different values used by those applications to identify the same type of object (such as gender codes or country codes).</td>
<td>Creating Lookups of Using Oracle Integration Cloud Service</td>
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<tr>
<td>6</td>
<td>Activate the integration.</td>
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<td>7</td>
<td>Monitor the integration on the dashboard.</td>
<td>Monitoring Integrations of Using Oracle Integration Cloud Service</td>
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<tr>
<td>8</td>
<td>Track payload fields in messages during runtime.</td>
<td>Assigning Business Identifiers for Tracking Fields in Messages and Managing Business Identifiers for Tracking Fields in Messages of Using Oracle Integration Cloud Service</td>
</tr>
<tr>
<td>9</td>
<td>Manage errors at the integration level, connection level, or specific integration instance level.</td>
<td>Managing Errors of Using Oracle Integration Cloud Service</td>
</tr>
</tbody>
</table>
Creating a Microsoft SQL Server Adapter Connection

A connection is based on an adapter. You define connections to the specific cloud applications that you want to integrate. The following topics describe how to define connections:

Topics

• Prerequisites for Creating a Connection
• Creating a Connection
• Editing a Connection
• Cloning a Connection
• Deleting a Connection

Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the Microsoft SQL Server Adapter:

• Ensure that you have write permissions on the database.
• Ensure that you have the required permissions to run stored procedures and packages and SQL statements against the SQL Server.
• Know the database hostname or IP address and the port number.
• Know the database or instance name.
• Know the username and password for connecting to the database.
• Know the agent group to associate with the Oracle SQL Server Cloud adapter. You select the agent group during connection configuration in Configuring an Agent Group.

Creating a Connection

The first step in creating an integration is to create the connections to the applications with which you want to share data.

1. In the Oracle Integration Cloud Service home page, click Connections.
2. Click Create.
   The Create Connection — Select Adapter dialog is displayed.
3. Select an adapter from the dialog. You can also search for the type of adapter to use by entering a partial or full name in the Search field, and clicking Search.
   The Create New Connection dialog is displayed.
4. Enter the information to describe the connection.
   
   • Enter a meaningful name to help others find your connection when they begin to create their own integrations. The name you enter is automatically added in capital letters to the **Identifier** field. If you modify the identifier name, do not include a blank space (for example, *Sales Opportunity*).
   
   • Select the role (direction) in which to use this connection (trigger, invoke, or both). Only the roles supported by this adapter are displayed for selection. When you select a role, only the connection properties and security policies appropriate to that role are displayed on the Connections page. If you select an adapter that supports both invoke and trigger, but select only one of those roles, then try to drag the adapter into the section you did not select, you receive an error (for example, configure an Oracle Service Cloud (RightNow) Adapter as only an invoke, but drag the adapter to the trigger section).
   
   • Enter an optional description of the connection.

![Create New Connection](image)

5. Click **Create**.
   
   Your connection is created and you are now ready to configure connection details, such as email contact, connection properties, security policies, connection login credentials, and (for certain connections) agent group.

### Adding a Contact Email

From the Connection Administrator section of the connection, you can add a contact email address for notifications.

1. In the **Email Address** field, enter an email address to receive email notifications when problems occur.

2. In the upper right corner, click **Save**.
Configuring Connection Properties

Enter connection information so your application can process requests.

1. Click **Configure Connectivity**.
   The Connection Properties dialog is displayed.
2. Enter the host name or IP address of the database server.
3. Enter the optional database server port number.
4. Enter the optional database name.
5. Click **OK**.

Configuring Connection Security

Configure security for your Oracle SQL Server Cloud adapter connection by selecting the security policy and security token.

1. Click **Configure Credentials**.
2. Enter your login credentials:
   a. Select the security policy. Only the Username Password Token policy is supported. It cannot be deselected.
   b. Enter a username and password to connect to the database.
   c. Reenter the password a second time.
3. Click **OK**.
4. Select the agent group with which to associate the application. See Configuring an Agent Group.

Configuring an Agent Group

Configure an agent group for accessing the service hosted on your premises behind the fire wall.

1. Click **Configure Agents**.
   The Select an Agent Group page appears.
2. Click the name of the agent group.
3. Click **Use**.
4. Test the connection. See Testing the Connection.

Related Topics

- About Agents and Integrations Between On-Premises Applications and Oracle Integration Cloud Service
- Managing Agent Groups and the On-Premises Agent
- Monitoring Agents
Testing the Connection

Test your connection to ensure that it is successfully configured.

1. In the upper right corner of the page, click Test.
2. Select the type of connection testing to perform:
   - **Validate and Test**: Performs a full validation of the WSDL, including processing of the imported schemas and WSDLs. Complete validation can take several minutes depending on the number of imported schemas and WSDLs. No requests are sent to the operations exposed in the WSDL.
   - **Test**: Connects to the WSDL URL and performs a syntax check on the WSDL. No requests are sent to the operations exposed in the WSDL.

   If successful, the following message is displayed and the progress indicator shows 100%.

   Connection connection_name was tested successfully.

3. If your connection was unsuccessful, an error message is displayed with details. Verify that the configuration details you entered are correct.
4. When complete, click Save, then click Close.

Editing a Connection

You can edit connection settings after creating a new connection.

1. On the Oracle Integration Cloud Service home page, click Connections.
2. On the Connections page, search for the connection name.
3. Select Edit from the connection Actions menu or click the connection name.

   The Connection page is displayed.

4. Make any necessary edits.

   If you edit a connection currently used by an active integration, a dialog is displayed indicating that you must re-activate the integration for the connection updates to take effect.
Cloning a Connection

You can clone a copy of an existing connection, even if the connection is locked. This provides a quick way to create a new connection.

1. On the Oracle Integration Cloud Service home page, click Connections.
2. On the Connections page, search for the connection name.
3. Select Clone from the connection Actions menu.

The Clone Connection dialog is displayed.

4. Enter the connection information.
5. Click Clone.
6. Click Edit to configure the credentials of your cloned connection. Cloning a connection does not copy the credentials.

See Editing a Connection for instructions.

Deleting a Connection

You can delete a connection from the connection menu.

1. On the Oracle Integration Cloud Service home page, click Connections.
2. On the Connections page, search for the connection name.
3. Click Delete from the connection Actions menu.
The Delete Connection dialog is displayed if the connection is not used in an integration.

4. Click Yes to confirm deletion.
Creating an Integration

Integrations use the adapter connections you created to your applications, and define how information is shared between those applications. You can create, import, modify, or delete integrations; create integrations to publish or subscribe to messages; add and remove request and response enrichment triggers; and create routing paths for different invoke endpoints in integrations. Click the following topic for more information:

Topic
- Creating Integrations (in Using Oracle Integration Cloud Service)
Adding the Microsoft SQL Server Adapter Connection to an Integration

When you drag the Microsoft SQL Server Adapter into the trigger or invoke area of an integration, the Cloud Endpoint Configuration Wizard appears. The wizard guides you through the configuration of Microsoft SQL Server Adapter endpoint properties.

The following sections describe the wizard pages that guide you through configuration of the Microsoft SQL Server Adapter as an trigger and invoke in an integration.

Topics
- Configuring Basic Information Properties
- Configuring Microsoft SQL Server Adapter Stored Procedure Properties
- Configuring Microsoft SQL Server Adapter SQL Statement Properties
- Reviewing Configuration Values on the Summary Page

Configuring Basic Information Properties

The Basic Info page appears when you drag an adapter onto the integration canvas. Review these topics to learn more about Microsoft SQL Server Adapter basic information settings.

Topics
- What You Can Do from the Basic Info Page
- What You See on the Basic Info Page

What You Can Do from the Basic Info Page

You can specify the following values on the Basic Info page. The Basic Info page is the initial wizard page that is displayed whenever you drag the Microsoft SQL Server Adapter to the target area.

- Specify a meaningful name.
- Specify the type of operation to run against the SQL Server:
  - Select a stored procedure to invoke in the SQL Server. This selection takes you to the Invoke a Stored Procedure page when you click Next.
  - Select a SQL statement to run against the SQL Server. This selection takes you to the Run a SQL Statement page when you click Next.
## What You See on the Basic Info Page

The following table describes the key information on the Basic Info page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What do you want to call your endpoint?</strong></td>
<td>Provide a meaningful name so that others can understand the connection. For example, if you are creating a database connection for adding new employee data, you may want to name it <code>CreateEmployeeInDB</code>. You can include English alphabetic characters, numbers, underscores, and dashes in the name. You cannot include the following:</td>
</tr>
<tr>
<td></td>
<td>• Blank spaces (for example, <code>My DB Connection</code>)</td>
</tr>
<tr>
<td></td>
<td>• Special characters (for example, <code>#;83&amp;</code> or <code>rightnow4</code>)</td>
</tr>
<tr>
<td></td>
<td>• Multibyte characters</td>
</tr>
<tr>
<td><strong>What operation do you want to perform?</strong></td>
<td>Select the type of operation for this connection to perform:</td>
</tr>
<tr>
<td></td>
<td>• <strong>Invoke a Stored Procedure</strong>: Select to invoke a stored procedure in the database.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Run a SQL Statement</strong>: Select to run a SQL query against the database.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong>: When operations in a SQL statement such as Update, Concat, and Merge accept values for the inbound invocation of an integration, they do not work. For example, the following query does not work:</td>
</tr>
</tbody>
</table>
|                                              | `select concat(empname, 'ss') from DB_AQ`  
|                                              | `where empno=#empno`                                                                                                                                                                                        |
|                                              | `select empno from DB_AQ where empname=concat(#empname, 'YY')`                                                                                                                                             |
|                                              | As a workaround, handle these scenarios during payload mapping. For example, perform a concatenation during mapping of the payload. The final output can then be passed as input to the SQL query. |

## Configuring Microsoft SQL Server Adapter Stored Procedure Properties

Enter the Microsoft SQL Server Adapter stored procedure parameters.

### Topics
- What You Can Do from the Invoke a Stored Procedure Page
- What You See on the Invoke a Stored Procedure Page
What You Can Do from the Invoke a Stored Procedure Page

You can specify the following values on the Invoke a Stored Procedure page. The Invoke a Stored Procedure page is the wizard page that is displayed if you selected Invoke a Stored Procedure as the operation type on the Basic Info page.

**Note:**

Adapter input/output parameters are defined based on the stored procedure IN/OUT parameters. The IN parameter corresponds to the request and the OUT parameter is translated as the response.

- Select the database schema that includes the data you want to query (for example, you want to query details about an employee based on their employee ID).
- Select a stored procedure or package from the list that is displayed after you select the database schema.

What You See on the Invoke a Stored Procedure Page

The following table describes the key information on the Invoke a Stored Procedure page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Schema</td>
<td>Select a database schema from the list. This action refreshes the page to display fields for selecting a package or procedure to invoke.</td>
</tr>
<tr>
<td>Select Package</td>
<td>Select the database package. This action refreshes the page to display the procedures available for the package.</td>
</tr>
<tr>
<td>Select Procedure</td>
<td>Displays the in (inbound), out (outbound), and in/out (inbound/outbound) parameters for the selected package.</td>
</tr>
<tr>
<td>Arguments</td>
<td>Display the in, out, and in/out parameters that are passed with this procedure.</td>
</tr>
</tbody>
</table>

Configuring Microsoft SQL Server Adapter SQL Statement Properties

Enter the Microsoft SQL Server Adapter SQL statement parameters.

**Topics**

- What You Can Do from the Run a SQL Statement Page
- What You See on the Run a SQL Statement Page
Note:

- Do not use schema/database names in SQL queries. Configure the details in the connection. For example:

```
Update HR.employee set HR.employee.first_name = 'Name' where HR.employee.employee_id='1'
```

can be changed to a simple query, such as:

```
Update employee set first_name = 'Name' where employee_id='1'
```

where HR is used in the connection details. This restricts a user with specific privileges to a particular schema/database.

- When configuring the adapter as an invoke connection, ensure that proper spaces are provided between key words for a pure SQL statement. For example, the following statement fails during integration activation because there is no blank space between VALUES and (#).

```
INSERT INTO <table_name> VALUES(#EMPNO, #EMPNAME)
```

Add a blank space between VALUES and (#, and the statement is successfully processed.

```
INSERT INTO <table_name> VALUES (#EMPNO, #EMPNAME)
```

---

What You Can Do from the Run a SQL Statement Page

You can specify the following values on the Run a SQL Statement page. The Run a SQL Statement page is the wizard page that is displayed if you selected SQL statements as the operation type on the Basic Info page.

- Enter a SQL query.
- Click **Validate SQL Query** to ensure that your query has correct syntax and specifies tables, fields, and values that exist.
- Ensure that after you click **Validate SQL Query**, the Status field displays **Success!**.

---

What You See on the Run a SQL Statement Page

The following table describes the key information on the Run a SQL Statement page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQL Query</td>
<td>Identifies the SQL query.</td>
</tr>
<tr>
<td>Status</td>
<td>After you click <strong>Validate SQL Query</strong>, ensure the Status field displays <strong>Success!</strong>.</td>
</tr>
</tbody>
</table>
Configuring Microsoft SQL Server Adapter Polling Properties

Import the Microsoft SQL Server Adapter tables and select the root database table for the service query.

Note:
No order is maintained while polling records.

Topics
• What You Can Do from the Polling Page
• What You See on the Polling Page
• What You See on the Manage Tables Page
• What You See on the Relations Page
• What You See on the Polling Strategy and Options Page

What You Can Do from the Polling Page
You can import root database tables on the Polling page.

What You See on the Polling Page
The following table describes the key information on the Polling page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Import Tables</td>
<td>Imports tables and the root database table for the service query.</td>
</tr>
<tr>
<td>Remove Tables</td>
<td>Removes tables. Select <strong>Remove Tables</strong>, clear the checkbox to the right of the table you want to remove, and click <strong>Ok</strong>. You cannot remove the root database table.</td>
</tr>
<tr>
<td>Review and Manage relationships reachable from the root database table.</td>
<td>Appears after importing tables. Select <strong>Edit</strong> to open the Relations page where you can view, create, and remove relationships between tables.</td>
</tr>
<tr>
<td>Review and verify the attributes created from the imported tables and relationships.</td>
<td>Appears after importing tables. Select <strong>Edit</strong> to open the Attributes Filtering page where you can review, verify, select or deselect the attributes in the object model created from the imported tables and the defined relationships.</td>
</tr>
<tr>
<td>Polling Strategy and Options</td>
<td>Appears after importing tables. Select <strong>Edit</strong> to open the Polling Strategy and Options page where you can define the polling strategy and specify polling options.</td>
</tr>
</tbody>
</table>
What You See on the Manage Tables Page

The following table describes the key information on the Manage Tables page. The Manage Tables page appears when you select **Schema** on the Microsoft SQL Server Adapter Manage Tables page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schema</td>
<td>Selects the schema for the tables and views you are importing.</td>
</tr>
<tr>
<td>Tables</td>
<td>The name of the table to which the schema or view is applied. The list next to the <strong>Tables</strong> field allows these selections:</td>
</tr>
<tr>
<td></td>
<td>• All — selects all available tables and views.</td>
</tr>
<tr>
<td></td>
<td>• Table — selects tables.</td>
</tr>
<tr>
<td></td>
<td>• View — selects views.</td>
</tr>
<tr>
<td>Available Tables</td>
<td>Lists the tables that meet the selection criteria.</td>
</tr>
<tr>
<td>Selected Tables</td>
<td>Lists your table selection.</td>
</tr>
<tr>
<td>Primary Keys</td>
<td>Appears when you select tables without a primary key defined. Selects the virtual primary key for the table.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Having the primary key at the database level is the best practice.</td>
</tr>
</tbody>
</table>

What You See on the Relations Page

The following table describes the key information on the Relations page. The Relations page appears when you select **Edit** for the Review and Manage relationships reachable from the root database table option on the Microsoft SQL Server Adapter Poll for a New or Changed Records page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create New</td>
<td>Opens the Create Relation page with these options:</td>
</tr>
<tr>
<td></td>
<td>• Parent Table — selects the parent table for the relationship between tables.</td>
</tr>
<tr>
<td></td>
<td>• Child Table — selects the child table for the relationship between tables.</td>
</tr>
<tr>
<td></td>
<td>• Relationship — defines the relationship between the parent and child tables.</td>
</tr>
<tr>
<td></td>
<td>• Attribute Name — Applies attributes to the table relationship.</td>
</tr>
<tr>
<td></td>
<td>• Mapping — Displays the mapping for the table relationship.</td>
</tr>
<tr>
<td>Detach</td>
<td>Opens the Relationships list in a new window.</td>
</tr>
</tbody>
</table>

What You See on the Polling Strategy and Options Page

The following table describes the key information on the Polling Strategy and Options page. The Polling Strategy and Options page appears when you select **Edit** for Polling
Strategy and Options on the Microsoft SQL Server Adapter Poll for a New or Changed Records page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logical Delete Field</td>
<td>Selects a field in the root database table. To allow the selection, polling must be enabled in the Status column.</td>
</tr>
<tr>
<td>Read Value</td>
<td>Identifies the value that is used to indicate a row has been read. For example, PROCESSED. Surrounding quotes are not required.</td>
</tr>
<tr>
<td>Unread Value</td>
<td>Indicates the rows to process. Only rows with Logical Delete Field and column values that match the UnRead Value are read.</td>
</tr>
<tr>
<td>Polling Frequency (Sec)</td>
<td>Specifies the polling frequency for new records or events.</td>
</tr>
</tbody>
</table>

Reviewing Configuration Values on the Summary Page

You can review the specified adapter configuration values on the Summary page.

Topics

• What You Can Do from the Summary Page
• What You See on the Summary Page

What You Can Do from the Summary Page

You can review configuration details from the Summary page. The Summary page is the final wizard page for each adapter after you have completed your configuration.

• View the configuration details you defined for the adapter. For example, if you have defined an inbound trigger (source) adapter with a request business object and immediate response business object, specific details about this configuration are displayed on the Summary page.
• Click Done if you want to save your configuration details.
• Click a specific tab in the left panel or click Back to access a specific page to update your configuration definitions.
• Click Cancel to cancel your configuration details.
What You See on the Summary Page

The following table describes the key information on the Summary page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summary</td>
<td>Displays a summary of the configuration values you defined on previous pages of the wizard. The information that is displayed can vary by adapter. For some adapters, the selected business objects and operation name are displayed. For adapters for which a generated XSD file is provided, click the XSD link to view a read-only version of the file. To return to a previous page to update any values, click the appropriate tab in the left panel or click Back.</td>
</tr>
</tbody>
</table>
Creating Mappings and Lookups in Integrations

You must map data between trigger (source) connections and invoke (target) connections in integrations. You can also optionally create lookups in integrations.

Topics
• Mapping Data (in Using Oracle Integration Cloud Service)
• Creating Lookups (in Using Oracle Integration Cloud Service)
Administering Integrations

Oracle Integration Cloud Service provides you with the information and tools required to activate, monitor, and manage your integrations in the runtime environment.

Topic

• Administering Oracle Integration Cloud Service (in Using Oracle Integration Cloud Service)