Oracle® Retail Dynamic Data Service Guide



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Oracle Retail Dynamic Data Service Guide, Release 22.1.401.0

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Primary Author: Gayathri Joshi, Sanal Parameswaran

Contributing Authors: Nathan Young

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Preface

The *Dynamic Data Service (DDS) Guide* describes the integration and configuration information for Oracle Retail Dynamic Data Service.

Audience

This guide is for:

- Systems administration and operations personnel
- Systems analysts
- Integrators and implementers
- Business analysts who need information about Product processes and interfaces

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

https://support.oracle.com

When contacting Customer Support, please provide the following:

- Product version and program/module name
- · Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 19.0.000) or a later patch release (for example, 19.0.001). If you are installing the base release and additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

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An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

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Oracle Help Center (docs.oracle.com)

Oracle Retail product documentation is available on the following web site:

https://docs.oracle.com/en/industries/retail/index.html

(Data Model documents can be obtained through My Oracle Support.)

Conventions

The following text conventions are used in this document:

Convention Meaning	
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.



1 Introduction

This chapter gives a brief introduction to the Dynamic Data Service Web Application.

What is DDS?

Dynamic Data Service (DDS) is a cloud based web application with functionality to remotely interact with databases. It has the ability to interact with many schemas at once in a database. The functionality also has the ability to interact with different databases as well.

Data can be viewed and modified through the application. It also has security built into it to restrict data access and modification.

Dynamic Data Service provides access to data in a database through RESTful services. Users can perform CRUD operations on the data using RESTful services. From a security perspective, access to data can be restricted to users at the table, column and row level.

Dynamic Data Service allows users to access data from any configured databases the time of install. Dynamic Data Service UI provides functionality to setup the security and perform CRUD operations on the data.

Need for DDS

DDS is useful for exposing data in a schema with data that is not directly visible to the user. Good examples for this would be a back-end schema of other Oracle applications. Any data that is not exposed by these applications can be viewed using DDS because users cannot connect to database schemas, from a cloud environment, using standard database tools without proper permissions.

Functionality Offered

DDS offers various functionality regarding databases. It can connect to various database connections. The application then discovers the schema inside the databases and allows the user to work and interact with the tables and data within the tables. The high level list of functionalities offered:

- Schema Discovery
- Viewing Table Definition
- Querying table data
- Creation, modification and deletion of records
- Bulk Updates and Deletion of data in tables
- Security setup for limiting data access and modification



Accessibility

Oracle JET components have built-in accessibility support that conforms with the Web Content Accessibility Guidelines version 2.0 at the AA level (WCAG 2.0 AA), developed by the World Wide Web Consortium (W3C).

Accessibility involves making your application usable for persons with disabilities such as low vision or blindness, deafness, or other physical limitations. This means, for example, creating applications that can be:

- Used without a mouse (keyboard only).
- Used with assistive technologies such as screen readers and screen magnifiers.
- Used without reliance on sound, color, animation, or timing.

DDS provides the ability to support the above accessibility in the applications.

Users should be able to navigate to all parts and functions of the application using the Tab and arrow keys, without using any keyboard shortcuts. In addition to that, keyboard shortcuts merely provide an additional way to access a function quickly.

Keyboard shortcuts provide an alternative to pointing devices for navigating the page. There are five types of keyboard shortcuts that can be provided in OJET applications:

- Tab traversal, using Tab and Shift+Tab keys: Moves the focus through UI elements on a screen.
- Accelerator keys (hot keys): bypasses menu and page navigation, and performs an action directly, for example, Ctrl+C for Copy.
- Access keys: Moves the focus to a specific UI element, for example, Alt+F for the File menu.
- Default cursor/focus placement: Puts the initial focus on a component so that keyboard users can start interacting with the page without excessive navigation.
- Enter key: Triggers an action when the cursor is in certain fields or when the focus is on a link or button.



2 RESTful Services

This chapter provides information about the RESTful Services used by DDS.

Discover

This end point returns a list of Dynamic Data Service end points.

HTTP Operation: GET

Path: /resources/discover

Get Data

This end point returns data from the provided schema and table(s). The query parameters "fromTables" allows single or multiple tables.

The query parameter "rowFilter" can be used to provide a join between tables.

Tables and columns need to be qualified if multiple tables are provided in "fromTables". The data is returned in JSON/XML format and one page of data is returned. The response contains a link to the next page if there are additional pages.

HTTP Operation: GET

Path: /resources/dds/{schemaName}/data?fromTables=<tables>

The following query parameters can be provided to filter the data.

- columnFilter Columns to be included in the response
- rowFilter Predicate can be provided in the rowFilter to filter the data
- sortBy Valid values are ascending(asc) or descending(desc)
- Page Page number
- pageLimit Number of records to be included in the page. The default page size is 25
- format Valid values are short or long. Short format provides data without column names.
 Long format provides data with column names.

Get Data from a Table

This end point returns data from a table using a primary key.

HTTP Operation: GET

Path: /resources/dds/{schemaName}/{table}?idFilter=<Primary Key>



Insert Data

This end point inserts data in a table. Input can be a single record or multiple records provided in JSON format. Users that belong to the admin or operator group can only perform this operation. Users also need to have DataCreatePermission to insert data.

HTTP Operation: PUT

Path: /resources/dds/{schemaName}/data/{table}

Sample input for inserting data in the BDI_RECEIVER_OPTIONS table

/dds/bdi_rms_schema/data/BDI_RECEIVER_OPTIONS

```
{
    "items":
    [
        {
                "ID":1,
                "BASE_FOLDER":"base",
                "FOLDER_TEMPLATE":"baseTemplate",
                "INTERFACE_MODULE":"interfaceModule",
                "INTERFACE_SHORT_NAME":"interfaceShortName",
                "MERGE_STRATEGY":"mergeStrategy"
        }
    ]
}
```

Update Data

This end point updates data in a table using the rowFilter query parameter and input is provided in JSON format. Users that belong to the admin or operator group can only perform this operation. Users also need to have DataUpdatePermission to update data.

HTTP Operation: POST

Path: /resources/dds/{schemaName}/data/{table}?rowFilter=<predicate>

Sample input for updating data in the BDI_SYSTEM_OPTIONS table

/dds/bdi_rms_schema/data/BDI_SYSTEM_OPTIONS? rowFilter=VARIABLE_NAME='LOADJOBDEF'

```
"VARIABLE_VALUE":"TRUE"
```

Delete Data

}

This end point deletes data from a table based on the rowFilter query parameter. Users that belong to the admin or operator group can only perform this operation. Users also need to have DataDeletePermission to delete data.

HTTP Operation: DELETE

Path: /resources/dds/{schemaName}/data/{table}?rowFilter=<predicate>

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Sample End Point

/dds/bdi_rms_schema/data/BDI_SYSTEM_OPTIONS? rowFilter=VARIABLE_NAME='LOADJOBDEF'

Get Schemas

This end point returns all configured database schemas.

HTTP Operation: GET

Path: /resources/dds/schemas

Get Tables

This end point returns all tables from a database schema.

HTTP Operation: GET

Path: /resources/dds/{schemaName}/tables

Get Columns for a Table

This end point returns columns for a table.

HTTP Operation: GET

Path: /resources/dds/{schemaName}/{table}

Get System Options

This end point returns all system options from the DDS_SYSTEM_OPTIONS table.

HTTP Operation: GET

Path: Iresources/system-setting/system-options

Create System Options

This end point creates a system option in the DDS_SYSTEM_OPTIONS table.

HTTP Operation: PUT

Path: Iresources/system-setting/system-options

Sample Input

```
"key":"testKey",
"value":"testValue"
```

Update System Options

This end point updates a system option in the DDS_SYSTEM_OPTIONS table.



HTTP Operation: POST Path: *Iresources/system-setting/system-options* Sample Input { "key":"testKey", "value":"testValuel" }

Delete System Options

This end point deletes a system option in the DDS_SYSTEM_OPTIONS table.

HTTP Operation: DELETE

Path: /resources/system-setting/system-options/{key}

Reset Cache

This end point resets the system option cache.

HTTP Operation: POST

Path: /resources/system-setting/reset-cache



3 Security

Dynamic Data Service provides table level, row level, and column level security. All the end points are protected with basic authentication and role based authorization.

There are three security groups that provide role based authorization.

There are three Roles and three Groups.

Roles:

- AdminRole Users with this role have access to all the functions of the DDS app. They can also setup the security permissions for other users.
- **OperatorRole** Users with this role have the ability to read, write and modify content in the schemas and tables. However they will not have access to the admin functions and cannot setup security permissions.
- **MonitorRole** Users with this role can only read the data from schemas and tables. They also will not have access to security setup functions.

Groups:

- RicsAdminGroup Users that belong to this group can perform all operations
- RicsOperatorGroup Users that belong to this group can perform all operations except security setup
- RicsMonitorGroup Users that belong to this group can only perform read only operations

The following table lists all the functions which can be performed by the roles and groups mentioned above.

Role Name	Admin Role	Operator Role	Monitor Role	
Group Name	RicsAdminGroup	RicsOperatorGroup	RicsMonitorGroup	
Create Access Level	Yes	No	No	
Delete Access Level	Yes	No	No	
Create Security Group	Yes	No	No	
Delete Security Group	Yes	No	No	
Create Table Level Security	Yes	No	No	
Delete Table Level Security	Yes	No	No	
View Table Definition	Yes	Yes	Yes	
Create Queries	Yes	Yes	Yes	
Run Queries	Yes	Yes	Yes	

Table 3-1 Functions Performed by Roles and Groups



Role Name	Admin Role	Operator Role	Monitor Role	
Group Name	RicsAdminGroup	RicsOperatorGroup	RicsMonitorGroup	
View Table Data	Yes	Yes	Yes	
Modify Table data	Yes	Yes	No	
Delete Table Data	Yes	Yes	No	
Bulk Update Table Data	Yes	Yes	No	

Table 3-1 (Cont.) Functions Performed by Roles and Groups

Table Level Security

Table level security defines who can access a table with set of allowed permissions. A table cannot be accessed if table level security is not setup.

Table level security is associated with the following information.

- Schema Name
- Table Name
- Security Group Provides who can access the table
- Access Level Provides permissions

Table level securities are set up for all tables when default security is setup using the end point. Every table is setup to be accessed by users in all security groups with default permissions.

Example

Table - DdsAdminGroup, DdsAdminAccessLevel

Table - DdsOperatorGroup, DdsOperatorAccessLevel

Table - DdsMonitorGroup, DdsMonitorAccessLevel

IDCS Security Setup

For getting access to RICS DDS REST services you need to create a client app in IDCS. IDCS app generates an access token that will be used for making publishing service calls. Follow steps for creating the client app in IDCS.

Create OAuth2 Client Application in IDCS

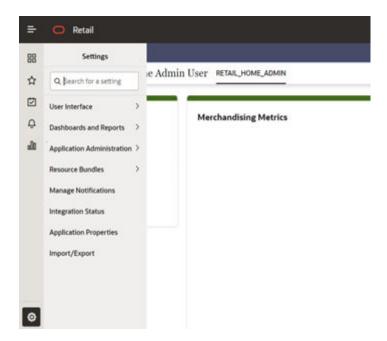
Use Retail Home for creating the client app in IDCS. Once app is created you will get cli-ent id and client secret both of them necessary to get access token. Follow the instructions below for generating the access token and making service call using OAuth2 token.

1. Login into retail home as retail home administrator.



		ACLE		
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	Oracl	e Cloud Accour	nt Sign In	
User Name				
RETAIL_HOME_	ADMIN_USER			
Password				
	-			
		Sign In		
	Need he	elp signing in	? Click here	
				Cookie Preferenc

2. In retail home screen click on Settings menu icon on the left and then click on Application Administration.



3. On the Application Administration menu click on Application Navigator Setup. Notice all the hosted applications are listed here with their application and platform service url.

Settings -> Application Administration->Application Navigator Settings



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Features Application Name Color Set	Application Code	Application Link	Platform Service	Seeded	Roles
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🔠 🗘 🍈 🚊 Retail Demand Foreca 📕 Chestnut	RDFCS			Yes	
III 🗘 🗇 🐥 🙏 Dracke Retail Home 🛛 📕 Chesthult	RH	htps://home.relail.us-phoents-	1. https://home.retail.us-phoenix-1.	Ves	
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器 🖓 🏚 🐥 Rics 📕 Manga	Res	https://vex.retail.us-phoenis-1.0	cz. https://rex.retall.us-phoenix-1.oc	No	
88 🔍 🔅 🔿 🥂 Customer Engagemen 📕 Cyan	ORCE	https://rev.retail.us-phoenis-1.o	c: https://tex.tetallus-phoenis-1.oct	Yes	
🔢 🗘 🕆 🐥 Customer Engagemer 📕 Jungle	ORCE	https://www.retail.us-phpenia-1.0	cr. https://rev.netall.us-phoenix-1pp	No	

- 4. Look for application with name RICS. If you are not seeing RICS, application try refreshing seed. Steps
 - a. Select the row with the application code as Rms.
 - **b.** Click the Refresh Seed Data button on top right corner of the menu.
 - c. Wait for some time and refresh the screen.
 - d. RICS should reflect now.

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5. If RICS application is not reflecting even after following step 4. Select the row with the application code as RMS and click on the Actions menu on top left. Select Create IDCS OAuth 2.0 Client. A dialog will open for entering oauth2 client details.

Note:

Create IDCS OAuth 2.0 Client option is available only for applications those have platform service URL mentioned. RICS is making use of Merch platform service as both the apps are sharing same IDCS tenancy.

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	Duplicate	n 📕 Chestnut	Raim		1
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		Chestrical	Rpm.		1
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6. Skip this step if RICS application is not showing up. One of either Step 5 or Step 6 needs to be followed.

Select a row with application code as RICS. Click on the Actions menu on top left and select Create IDCS OAuth 2.0 Client. A dialog will open for entering oauth2 client details.

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Add		et	Application Code	Application Link	Platform Service	Seeded	Roles
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Uup	acate	estnut	RDFCS			Yes	
Edit		estnut	RH	https://home.retail.us-phoenix-1	https://home.retail.us-phoenix-1	Yes	
Dele	ne	estrut	SIDCS	https://rex.retall.us-phoenix-l.oc	https://res.retail.us-phoenix-1.oc	No	
		estrut	Rms	https://recretail.us-phoenix-l.oc	https://rex.retail.us-phoenix-l.ocs	No	
Refr	esh	ngo	Rics	https://rex.retail.us-phoenix-l.oc	https://rek.retail.us-phoenik-1.oc	No	
Mar	eup	an .	ORCE	https://rex.retail.us-phoenix-l.oc	https://res.retail.us-phoenix-1.oc	Yes	
	a up	ugle)	ORCE	https://rex.retail.us-phoenix-Loc	https://res.retail.us-phoenix-Loci	No	

- 7. This dialog takes the following values:
 - App Name is 2-100 characters and will be used as the name in IDCS. Provide unique application name.
 - **Description** is a detailed description of the application.
 - Scope: <Custom environment-specific scope>

The scope pattern that is used in the RICS IDCS app creation template is rgbu:rics:<SERVICETYPE>-<ENVIRONMENT> where SERVICETYPE is RICS and EN-VIRONMENT is the environment type (STG, PRD, UAT, DEV1, DEV2, and so on).

For example:

"scope": "rgbu:rics:RICS-PRD""scope": "rgbu:rics:RICS-STG"

8. When the application is created, another dialog will open to show the client ID and client secret of the new application. These values should be copied down to a safe location, as they will only be shown once. Retail Home cannot retrieve the credentials again after the dialog is closed.



submitting this form will prov	ide you with a Client ID and Client Secret which will be displayed one to	me or
App Name	RICS_TEST	
Description	Testing oauth client app	
Scope 1	rgburrics:RICS-STG99	×
	* Add Scope	

9. The Client ID and Client Secret from previous step will be used for generating access token.

Sample code for generating Access Token:

```
clientId=RICS_TEST_APPID
clientSecret=998ele1d-f146-45a5-a9a1-99785e3ebf43
idcsUrl=https://
idcs-234e8f7334564936aa0ed93f2c39e9ca.identity.pint.oc9qadev.com
scope=rgbu:rics:RICS-STG99
ec=$(echo -n "$clientId:$clientSecret" | base64 -w 0)
AccessToken=$(curl -iv \
-H "Authorization: Basic $ec" \
-H "Content-Type: application/x-www-form-urlencoded;charset=UTF-8" \
--request POST $idcsUrl/oauth2/v1/token \
-d "grant twme=client credentials$scope=$scope" | gran =0 =P '/2
```

<pre>-d "grant_type=client_credentials&scope=\$scope"</pre>	grep	-0	-P	'(?
<=access_token":").*(?=","token_type)')				

Client ID	RICS_TEST_APPID
Client Secret	998e1e1d-f146-45a5-a9a1-99785e3ebf43

10. Now a service call can be made by passing along the access token generated in previous step.

Here is sample curl command with Bearer token and the DDS get schemas endpoint:



```
ddsGetSchema-sUrl=https://rex.retail.us-phoenix-1.ocs.oc-test.com:443/rgbu-rex-eit-
stg99-rics/dynamic-data-service-web/resources/dds/schemas
curl -ivkL --noproxy '*' -H "Authorization: Bearer $AccessToken" -H "Con-tent-
Type: application/xml" -X GET $ddsGetSchemasUrl
```

Sample Response:

```
{
    "schemas": [
        "DDS_RIBEH",
        "RFI_TEST"
    ],
    "userInRoles": [
        "AdminRole"
    ]
}
```



4 User Interface

The DDS UI is divided into two sections; Admin tab, and Designer tab. The Admin tab lets admin users control access and perform security operations. The Designer tab lets admin, operators and monitor users perform authorized functions.

This chapter explains the main UI functionality available to the user.

Admin Tab Guide

This tab has all the functions for configuring security related permissions and user access. Only the admin user has access to this tab. The admin can enable read, write and modify access permissions and also limit functionality of a user.

The Admin Tab has three main sections:

- Manage Access Levels
- Manage Security Groups
- Manage Security permissions

Initial Permissions Setup

In order to access the data on tables being viewed in the Designer Tab, first the Table level securities have to be setup in the Admin tab of the DDS Application. The Admin can select the desired database schema from the associated database schema dropdown.

Access to this tab is only allowed to the Admin User.

Manage Access Levels

This tab allows the creation and deletion of Access Levels for data and functionality. These can be assigned to groups for particular tables in a schema.

To create an access level

- 1. Input a name in the Name text box.
- 2. Select the necessary access permissions.
- 3. Click Create.



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AnageAccessLevels										
ManageSecurityGroups	AccessLe	evel Manager								
ManageSecurityPermissions										
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		AllAccess	×	*	×	×	×	×	×	
		NewAccess	×	*	×			¥		
		OnlyRead	×							
	Page	1 of 1 (1-3 of 3 items) K <	1 > >							
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To delete an access level

- 1. Select the Access Level to be deleted from the table which displays the available access levels.
- 2. Click Delete.

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ManageSecurityPermissions									
	Create	e an AccessLevel							
	A Availa	ible Access Levels							
	Below ta	able displays the existing AccessLeve	i names and associated per	nissions. Select the AccessLevel:	to be deleted.				
		AccessLevelName	DataRead	DataCreate	DataUpdate	DataDelete	RowAccess	ColumnAccess	DataSecuritySetup
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		OnlyRead	¥						
		OnlyWriteAccess		¥	4				
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						Delete 🗘 Reset			
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Manage Security Groups

This tab includes functionality for the creation and deletion of Security Groups. Security Groups are groups of users that have a certain level of data access. These, along with one or more access levels, can be assigned to a table to limit access to data and functionality in the Designer tab.

To create a Security Group

- **1.** Input a name in the Name text box.
- 2. Click Create.



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ManageSecurityPermissions									
	Create a Group								
			SecurityGroup Name NewDDSSecurityGroup	× Create					
	∡ Available Groups								
		Nebus table diploys the existing Group names. Select the Group to be deleted.							
		GroupName		CreatedBy					
		DDSAdminGroup		ddsadmin					
		a		ddsadmin					
		b		ddsedmin					
		¢		ddsedmin					
		d		ddsedmin					
	Page 1 of 3 (1-5 of 14	tems) K < 1 2 3 > X							
			E Delete 🛛 🖗 Reset						

To delete a Security Group

- **1.** Select the Security Group to be deleted from the table that displays the available Security Groups.
- 2. Click Delete.

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AnageAccessLevels	=						
ManageSecurityGroups	Manage Groups						
ManageSecurityPermissions							
	▶ Create a Group						
	A Available Groups						
	Below table displays the e	visting Group names. Select the Group to be deleted.					
		GroupName	CreatedBy				
		Nex005SecurityGroup	ddcadmin				
		DDSAdminGroup	ddsadmin				
		DDSMonitorGroup	ddsadmin				
		DDSOperatorGroup	ddsadmin				
	Pope 1 of 1 (1-4 of 4 items) K < 1 > 3						
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Manage Security Permissions

This tab allows the user to create and delete Security Permissions. Security Permissions are a combination of one or more Access levels in a Security Group mapped to a table to restrict data access and also limit functionality, like removing the ability to create, modify or delete data.

To create a Security Permission for a table

1. In the Create TableLevelSecurities collapsible pane, select the desired table.



- 2. Then select the required security group.
- 3. Finally select the required access level(s).
- 4. Click Create.

Manage/ccessLevels Manage/securityGroups	▼ ■ Tabletersteurly		© ~
ManageSecurityPermissions	View TableLevelSecurities		
	Create TableLevelSecurities		
	Choose Tables, Access Levels, Group Names to create table level security. Tables	Group Names	Access Levels
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	BOLLEXTRACTOR DR. DATA, SET	🗘 Create 🛛 🖓 Reset	
	Delete TableLevelSecurities		

To delete Security Permission(s)

Functionality is provided to either perform bulk delete or individual deletion of security.

- **1.** To bulk delete security permissions:
 - a. Select the required table name(s) or security group(s) or access level(s).
 - b. Click Delete.

	enices Console	User Role: AdminRole
Designer Admin AlP161A_STUBBY	*	() About
Arrite Inc. 1000	=	0~~~
ManageSecurityGroups	7 Table Security	
AnageSecurityPermissions	View TableLevelSecurities Create TableLevelSecurities	
	Create labelevelsecumes Delete TableLevelSecurities	
	You can either choose built delete or individually delete the table level security.	
	⊿ Bulk Delete	
	Load Available from Siz 💌 Tables 💦 Group Names 🔿 Access levels	
	RU, MALE READONN RU, CORONA AQ, MISSAR, MITRIC C C C	
	🗑 Delate 🖉 Reset	
	▶ Individual Delete	

- 2. To individually delete security permissions:
 - a. Select the required table name.
 - **b.** Select the particular security group associated.



- c. Select the associated access level.
- d. Click Delete.

ORACLE' Dynamic Data Servic	s Console		User Role: AdminiRole
AIP161A_STUBBY	Ŧ		(i) About
AnageAccessLevels	=		
ManageSecurityGroups	BabieLevelSecurity		
ManageSecurityPermissions	View TableLevelSecurities		
	Create TableLevelSecurities		
	Delete TableLevelSecurities		
	You can either choose bulk delete or individually delete the table level security.		
	► Bulk Delete		
	∡ Individual Delete		
	RE,MISSAGE *	DDSMonitorGroup v	AllAccess
		Telete	

Designer Tab Guide

This tab contains all the CRUD operations to be performed by user on tables in the database schema. The user can select the desired database schema available in the database schema dropdown. It has two sections:

- Table Definition
- Query Builder

Make sure the user has sufficient permissions before performing any action in the designer tab.

Table Definition

This tab allows the user to see the basic definition of the Database table in a simplified format presented in a tabular form.

To view a table's definition, select the required table from the list of tables from the left pane of the screen. Clicking on the table name will load the definition on the display screen under the Table Definition tab.



AIP161A_STUBBY	× AIP161A_3	STUBBY > AQ,MESSAGE,METRIC			() About
RIB_CONSUME RIB_MESSAGE	Table (Definition XQuery Builder			
TEST_TABLE	Table de	finition for AQ_MESSAGE_METRIC			
		Column Name	Column Type	Column Size [BYTES]	Nullable
	۶	TOPIC_NAME	VARCHAR2	32	Not Null
		MONITORING_START_TIME	DATE	7	
		TOTAL_MESSAGE_PROCESSED_COUNT	NUMBER	38	
		MOST_RECENT_ACTIVITY_TIME	DATE	7	
		DAILY_MSG_PROCESSED_COUNT	NUMBER	38	
		LAST_COUNT_RESET_TIME	DATE	7	
	Rage 1	of 1 (1-6 of 6 items) K < 1 > X			

Query Builder

This tab holds the functionality for data manipulation. Functions include Querying records to creation, modification and deletion of records.

Data Selection

To Query records from a table:

1. Select the table from the list of tables on the left pane of the screen.

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INTA_STUBBY	Image of the second secon					
ICH_INDLE	✓ Build/Run SQL on Table : TEST_TABLE					
	From Table Join Tables	Column Filter	Row Filter			
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	# Results					
	27 DE		< Prev Net			

- 2. Enable join if the join operation is necessary.
- 3. Select the table to which the join is to be done, select the same table as selected in (1) to do a self-join.



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	# Build/Run SQL on Table : TEST_TABLE		
	From Table 🗸 Join Tables	Column Filter	Row Filter
	TEST_TABLE AQ_MESSAGE_METRIC AR_CONSUME RB_MESSAGE TEST_SARE	10.D 10.DATE	Silut *
	Page Limit: 25 × A	Offset: 0 v ^ Sort By: Select	Sort Order: Acc Desc
	GET: http://bir00abic34003/dynamic-data-service/re	ources/dds/AIP161A_STUBBV/data?fromTables=TEST_TABLE 10,TEST_TABLE 11&offset=	08pageLimit=25
		► 00 Ba	
	A Results		

4. Select the columns which are to be displayed in the column filter. Only the column names on the right side of the box will be displayed. If all columns are to be displayed, do not move any columns to the right box.

TUBBY	AIP161A_STUBBY > TEST_TABLE				(
A AVERAGE MITIC A AVERAGE MITIC A AVERAGE A AVERAGE	Table Definition XQuery Builder				
	Build/Run SQL on Table : TEST_TABLE				
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	Page Limit: 25 V A	Offset:	V A Sort By: Select	Sort Order: J.D.t0.DATE_&offset=0&pageLimit=25	Asc Desc
			• C2 Ra		
	A Results				
	A REUIS				

5. Select the row filter.



The row filter is applied only to the first two columns in the table, so reorder the columns such that the ones that have to be used as row filter are in the two positions.



1A_STUBBY	▼ AIP161A_STUBBY > TEST_TABLE				(
4	Table Definition XQuery Suit	kler			
	J Build/Run SQL on Table :	TEST_TABLE			
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			DUD Offset: © Ourcev/ddu/AP161A_STUBEV/dsta1fs	ILDATE, ILDATE	Logari & Tempole • • • • Order: • An Cons LDATE_="Preeds_value"] or
	∦ Results			• 0 B	

- 6. Set the page limit, this is the number of records that are to be displayed on one page, the remaining records will be paginated and displayed upon request.
- The Sort by drop down list works if there are columns selected for a column filter. Select the desired column, and then select the sort order, ascending or descending.

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Data Insertion

To insert the data in the table:



- 1. The query results from the GET call are displayed here in an editable tabulated format.
- 2. To insert a record click on the insert record button
- 3. In the pop-up, enter the data. Make sure to enter all values for not null columns.
- 4. Click Insert.
- 5. The record will be successfully inserted after validation.

GET: http://bi00abk34003/dynamic-data-service/resources/dds/AP161A_STUBEY/data?HomTables=TEST_TABLE&offset=308pageLimit=25 Create Row x u:	From Table	Join Tables			Column Filter			Kow Hitter
GET: http://tbi00ubiki.34003/ujnumic-data-service/resources/ddi/APP161A_STUBEY/data/Hom Tables=TEST_TABLE&deffeet=0&papelimit=25 Image: Ima	YEST,TABLE	RIB_CONSUME RIB_MESSAGE TEST TABLE			» </td <td>× ×</td> <td></td> <td>¥</td>	× ×		¥
Create Row x Image: Create Row x <tr< td=""><td>Page Limit: 25</td><td>× ^</td><td>Offset:</td><td>0 4</td><td>Sort By: Select</td><td>v</td><td>Sort Order:</td><td>Asc O Desc</td></tr<>	Page Limit: 25	× ^	Offset:	0 4	Sort By: Select	v	Sort Order:	Asc O Desc
Image: Constraint of the columns that need to be versult set. select the columns that need to be versult set. select the columns that need to be versult set. Image: Constraint of the new value.								
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Image: Constraint of the second se	# #				Insert Cicce			< Prev
Image: Compare the above result set select the columns that need to be updated and provide the new values. 2018-10-23 033468.0	# #				Insert Core			Prev
To bulk update the above result set select the columns that need to be updated and provide the new values.	ACTION		DATE_:	3				4 Prev
	ACTION		DATE:		2017-01-03 03:34:08.0			≪ Prev
▶ Sulk Update	ACTION		DATE,:	1	2017-01-03 03:34:08.0 2018-10-23 03:34:08.0			. € Par
	ACTION	result set, select the columns	DATE.:	2	2017-01-03 03:34:08.0 2018-10-23 03:34:08.0 2018-10-23 03:34:08.0			. € Per

Data Modification

To modify existing data, select the data from desired table.

- 1. Double click on the record to be modified
- 2. Edit the contents
- 3. Press escape on the keyboard to exit edit mode and click on the save button in to save the changes.
- 4. Message Record updated successfully will be displayed after validation



	Join Tables	Column Filter		Row Filter
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Page Limit: 25	✓ ∧ Offse	et: 0 v A Sort By: 5e	iect 💌	Sort Order: Acc Otesc
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/ Results				
17 R				
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	а		2017-01-03 03:34:08.0	
H X	1		2018-10-23 03:34:08.0	
а х	2		2018-10-23 03:34:08.0 2018-10-23 03:34:08.0	
	2	to be updated and provide the new values.		
	2	to be updated and provide the new values.		

Bulk Updations of Data

The option is available to update bulk records on selected data. To bulk update column(s):

- 1. In the bulk update collapsible pane one or more columns for all records in the queried table can be updated with a single value, if the column is not unique.
- 2. Select the checkbox of the required column to enable edit mode.
- 3. Enter the data as necessary.

Image: Section of the sectio	GET: http://bir00abk:34003/dynamic-data-service	e/resources/dds/AIP161A_STUBBV/dat	affromTables=TEST_TABLE&offset=0&pageLimit=25	
Image: Column Name D DATE_ ACTION D D ATE_ ACTION D				
A Result Date ACTION D Date ACTION D 2011-017-12 0721-86.0 X 3 2011-017-12 0721-86.0 X 3 2011-017-12 0721-86.0 X 1 2011-017-12 0721-86.0 X 2 2011-				
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To bulk update the above result set, select the columns that need to be updated and provide the new values. # Bulk Update ColumnName ColumnNable	H ×	1	2011-07-12 07:21:48.0	
/ Bulk Update ColumnName ColumnValue	H X	2	2011-07-12 07:21:48.0	
ColumnName ColumnValue	To bulk update the above result set, select the colum	ins that need to be updated and provi	de the new values.	
	.∡ Bulk Update			
0 °	ColumnName		ColumnValue	
	• •			
☑ 0475_ 2016 11 1207260	Z DATE_		2018/11-11 12:07:26:0	
A list lipste				

- 4. Click the Bulk Update option all the records in the table.
- 5. Records will be updated after successful validation of data.

Data Deletion

This option is available to perform individual and bulk deletions of records.



Individual Delete - To delete a single record, click the delete button × on the corresponding record.

Bulk Delete -To delete all records, click the delete all button and confirm once the confirmation dialog pops up.

The number of records deleted message will be displayed upon successful deletion of records.

Page Limit: 25 V A Offset:	0	SOFT BY: Select	* Sort Urder:	Alc Ubec	
GET: http://blr00abk:34003/dynamic-data-service/resources/dds	/AIP161A_STUBBY/data?fromTables=TES	ST_TABLE&offset=0&pageLimit=25			
		h			
A Results					
177 FR				🔍 Prev 🛛 Next	
ACTION	ID	DATE_			
R ×	4	2011-07-12 07:21:48.0			
	3	2011-07-12 07:21:48.0			
□ ×	1	2011-07-12 07:21:48.0			
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To bulk update the above result set, select the columns that need to	be updated and provide the new value	ş.			
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^a					
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	E Contraction (1997)	Bulk Update			



5 Advanced Backend Features

The DDS backend service supports many SQL query commands. Some of these commands can be added to a query using the components available in the DDS UI, while others must be added by manually typing them into the query itself. Once that is done, the query can then be run through the DDS UI, or a browser, or a cURL commands to get the results.

Follow the instructions in the "Query Builder" section within the "Designer Tab Guide" section of the "User Interface" chapter for instructions on setting up a basic query in the DDS UI. Once those steps have been followed, a query is generated in the **GET** box. The query can be edited to add the following statements individually or in a combination as required.

Note:

Please maintain the formatting of the GET request, making sure all the special characters (like the separating ampersand &) are in place, a lack of which may cause unexpected errors.

Note:

However, before any of the following commands can be run we need an access_token, which is mandatory when using applications using OAuth2.0 authentication. The process to create an OAuth2.0 application and getting the access token is discussed in the chapter Security Setup.

LIKE Statement

The LIKE statement can be added separately to the query request to view only the results that are similar to the LIKE value. A simple GET request and result with LIKE statement can be like the following:

```
http://<dds_host>:<port>/dynamic-data-service-web/resources/dds/<selected_schema>/data?
fromTables=<selected_table>&rowFilter=<COULMN_NAME> LIKE
'<data_to_search>'&offset=0&pageLimit=25
```

A curl equivalent of the above example:

```
Curl -i -H "Authorization: Bearer $AccessToken" -H "Content-Type: application/
json;charset=UTF-8" --request GET "http://<dds_host>:<port>/dynamic-data-service-web/
resources/dds/<selected_schema>/data?
fromTables=<selected_table>&rowFilter=<COULMN_NAME>%20LIKE%20'<data_to_search>'&offset=
0&pageLimit=25"
```



	http://rgbu-mum-33.shbomprshared1gbucdsin02bom.oraclevcn.com:7005/dynamic-data-service-web/resources/dds/RFLSHWE_19/data?fromTables=EXT_FIN_FILE_CONTENT_DETAIL&rowFilter=RFLSEQ_NO LIKE '93' and FILE_ID BETWEEN '2504' AND '2505' & offset=0&pageLimit=25							
🔺 Resu	ilts							
a	Prev Ne							
ACTI	ON	RFI_SEQ_NO	FILE_ID	CREATION_DATE	LAST_UPDATE_DATE			
	×	93	2504	2021-05-27 18:23:02.0	2021-05-27 18:23:02.0			
	×	93	2505	2021-05-27 18:23:02.0	2021-05-27 18:23:02.0			

IN Statement

The IN statement can be added separately to the query request to only view results containing one of a set of possible values. A simple GET request and result with IN statement can be like the following:

```
http://<dds_host>:<port>/dynamic-data-service-web/resources/dds/
<selected_schema>/data?fromTables=<selected_table>&rowFilter=<COULMN_NAME> LIKE
'<data_to_search>'&offset=0&pageLimit=25
```

A curl equivalent of the above example:

```
Curl -i -H "Authorization: Bearer $AccessToken" -H "Content-Type: application/
json;charset=UTF-8" --request GET "http://<dds_host>:<port>/dynamic-data-
service-web/resources/dds/<selected_schema>/data?
fromTables=<selected_table>&rowFilter=<COULMN_NAME>%20IN%20('<value1>','<value2>'
,'<value3>', ...)&offset=0&pageLimit=25" -o filename.txt
```

Note:

The IN Statement supports searching using comma-separated values in parentheses. Sub-queries are **NOT** supported by the DDS design.

GET:	Inttp://gbu-mum-33.snbomprshared1.gbucdsint02bom.oraclevcn.com:7005/dynamic-data-service-web/resources/dds/DD5_RIBEH/data?fromTables=TEST_TABLE_2&rowFilter=COLUMIN2 IN (Iden2';Iden3';Iden4')&offset=0&pageLimit=25								
🔺 Resu	lts								
a	A R Net >								
ACTIO	N	COLUMN1	COLUMN2	COLUMN3	COLUMN4				
	×	Data2	Iden4	Val2	NO MESSAGE DATA				
	×	Data3	Iden3	"Val3"	Invalid value				
	×	Data4	Iden4	Val4	Not Null				

Comparative Operators

Comparative operators (like < and >) can be used to filter data for a particular range. A GET request and result with these operators can be like the following:

http://<dds_host>:<port>/dynamic-data-service-web/resources/dds/
<selected schema>/data?



fromTables=<selected_table>&rowFilter=COULMN_NAME<'data_to_search'&offset=0&pageLimit=2</pre>
5

A curl equivalent of the above example:

```
Curl -i -H "Authorization: Bearer $AccessToken" -H "Content-Type: application/
json;charset=UTF-8" --request GET "http://<dds_host>:<port>/dynamic-data-service-web/
resources/dds/<selected_schema>/data?
fromTables=<selected_table>&rowFilter=COULMN_NAME<'data_to_search'&offset=0&pageLimit=2
5" -o filename.txt
```

```
GET:
     http://rgbu-mum-33.snbomprshared1.gbucdsint02bom.oraclevcn.com:7005/dynamic-data-service-web/resources/dds/RFI_SHWE_19/data?fromTables=EXT_FIN_FILE_CONTENT_DETAIL&rowFilter=FILE_JD>4788 and RFL_SEQ_NO <2&offset=0&pageLimit=25
                                                                                    🕨 🖏 🖡
A Results
@ @
 ACTION
                              REI SEO NO
                                                                                                 CREATION DATE
                                                                     FILE ID
                                                                                                                                                    LAST UPDATE DATE
 .
                                                                                                 2021-07-14 10:20:29.0
                                                                     4789
                                                                                                                                                    2021-07-14 10:20:29.0
 .
                                                                     4791
                                                                                                 2021-07-14 10:23:57.0
                                                                                                                                                    2021-07-14 10:23:57.0
 2021-07-14 10:23:57.0
                                                                                                                                                    2021-07-14 10:23:57.0
                                                                     4792
```

Filtering DATE Column

Date columns can be filtered using the 'DD-MMM-YYYY' date format. Additionally, SYSDATE±**N** can also be used to query date columns.

GET:	^{EFE} http://rgbu-mum-33.snbomprshared1.gbucdsint02bom.oraclevcn.com/7005/dynamic-data-service-web/resources/dds/RFL_SHWE_19/data7 fromTables=EXT_FIN_FILE_CONTENT_DETAIL&rowFilter=CREATION_DATE > '31-MAY-2021' and LAST_UPDATE_DATE< <u>\$YSDATE&offset</u> =0&pageLimit=25										
🛋 Resu	ults										
1	(FX				< Prev Next						
ΑСΤΙ	ON	RFI_SEQ_NO	FILE_ID	CREATION_DATE	LAST_UPDATE_DATE						
	×	93	2777	2021-05-31 05:52:50.0	2021-05-31 05:52:50.0						
	×	93	2778	2021-05-31 05:52:50.0	2021-05-31 05:52:50.0						
	×	1	4789	2021-07-14 10:20:29.0	2021-07-14 10:20:29.0						

Example with the SYSDATE keyword:

http://<dds_host>:<port>/dynamic-data-service-web/resources/dds/<selected_schema>/data? fromTables=<selected table>&rowFilter=CREATION DATE<SYSDATE-1&offset=0&pageLimit=25</pre>

A curl equivalent of the above example:

```
Curl -i -H "Authorization: Bearer $AccessToken" -H "Content-Type: application/
json;charset=UTF-8" --request GET "http://<dds_host>:<port>/dynamic-data-service-web/
resources/dds/<selected_schema>/data?
fromTables=<selected_table>&rowFilter=CREATION_DATE<SYSDATE-1&offset=0&pageLimit=25" -
o file-name.txt
```

Example with 'DD-MMM-YYYY' date format:



```
http://<dds_host>:<port>/dynamic-data-service-web/resources/dds/
<selected_schema>/data?fromTables=<selected_table>&rowFilter=CREATION_DATE>'01-
JAN-1976'&offset=0&pageLimit=25
```

A curl equivalent of the above example:

```
Curl -i -H "Authorization: Bearer $AccessToken" -H "Content-Type: application/
json;charset=UTF-8" --request GET "http://<dds_host>:<port>/dynamic-data-
service-web/resources/dds/<selected_schema>/data?
fromTables=<selected_table>&rowFilter=CREATION_DATE>'01-
JAN-1976'&offset=0&pageLimit=25" -o file-name.txt
```

Combinations of OR, AND & BETWEEN Statements

The conditional statements OR, AND & BETWEEN can be used in combination with each other using parentheses to further filter results based on required conditions. The **Filter DDS** row in the UI can be used to add a single conditional statement, upon which more conditions can be added manually by typing them in the GET box. A simple GET request with result can look like this:

http://<dds_host>:<port>/dynamic-data-service-web/resources/dds/
<selected_schema>/data?fromTables=<selected_table>&rowFilter=(DATA_TYPE_LIKE
'INVOICE_HEADER' or DATA_TYPE_LIKE 'INVOICE_DETAIL') and FILE_ID='184' and
CREATION_DATE_BETWEEN '03-MAY-2021' AND '04-MAY-2021'&offset=0&pageLimit=25

	fromTab	les=EXT_FIN_SYSTE	M_FILES_CON	TENT&columnFilter=DAT	A_TYPE,FILE_IC	amic-data-tenice-web/resources/ddi/RFL5HWE_19/data? O.CREATION_DATESYSTEMFILE_CONTENTLAST_UPDATE_DATE_RROR_MSG.FILE_TIMESTAMP.STATUS&rrowFilter=(DATA_TYPE LIKE CREATION_DATE BETWEEN '03-MAY-2021' AND '04-MAY-2021'&offset=0&pageLimit=25				
A Resul	Its									
a	TX.					< Prev Next >				
ACTIC	ACTION DATA_TYPE FILE_ID CREATION_DATE SYSTEM FILE_CONTENT									
	INVOICE_HEADER 184 2021-05-03 05:34:46.0 CFIN 445001.A.REIM.MERCH5270008.1100.2021/04/25247915.Test.USDSTANDARD.TESTp.2021/04/252021/04/25User,1.0111011									

A curl equivalent of the above example:

```
Curl -i -H "Authorization: Bearer $AccessToken" -H "Content-Type: application/
json;charset=UTF-8" --request GET "http://<dds_host>:<port>/dynamic-data-
service-web/resources/dds/<selected_schema>/data?
fromTables=<selected_table>&rowFilter=(DATA_TYPE%20LIKE%20'INVOICE_HEADER'%20or%2
ODATA_TYPE%20LIKE%20'INVOICE_DETAIL')
%20and%20FILE_ID='184'%20and%20CREATION_DATE%20BETWEEN%20'03-
MAY-2021'%20AND%20'04-MAY-2021'&offset=0&pageLimit=25" -o filename.txt
```



Viewing Clob Data

			3.snbomprshared1.gbucdsint02bom.oraclevcn.com:7005/dynamic-data-service-web/resources/dds/RFI_SHWE_19/data? v_sYSTEM_FILES_CONTENT&columnFilter=FILE_ID.FILE_CONTENT,DATA_TYPE,CREATION_DATE,SYSTEM_LAST_UPDATE_DATE,ERROR_MSG,FILE_TIMESTAMP,STATUS&offset=0&pageLimit=25
🔺 Resu	lts		
iq	X		< Prev Next >
ACTIC	N	FILE_ID	FILE_CONTENT
	×	184	445001,A,REIM,MERCH5270008,1100,2021/04/25,,247915,Test,USD,,,STANDARD,TEST,,,,p.2021/04/25,,,2021/04/25,,,201/04,,200
	×	185	445001,226001,TAX,100,TAX,01 110 1110 1100 00 0 0 0 0-,2021/04/25,Test,10,NTest,10,N
	×	190	445001,A,REIM,MERCH5270008,1100,2021/04/25,,247915,Test,USD,,,STANDARD,TEST,,,,p.2021/04/25,,,2021/04/25
	×	191	445001,226001,TAX,100,TAX,01 110 1110 100 00 00 002021/04/25

Sometimes the data in a table field can of the type CLOB and have large data in it. DDS supports these fields and can display the data in the UI. However, these fields can also be viewed through a cURL command, and saving the output to a file.

Note: Ensure that the required DDS application username/password is supplied.

```
Curl -i -H "Authorization: Bearer $AccessToken" -H "Content-Type: application/
json;charset=UTF-8" --request GET "http://<server_host>:<server_port>/dynamic-data-
service-web/resources/dds/<selected_schema>/data?
fromTables=<selected_table>&columnFilter=MESSAGE_DATA&offset=0&pageLimit=25" -o
file_name.txt
```

The above queries can also be combined with the functions listed above in this chapter to get more filtered results.

Viewing Query Response as JSON Data

The DDS backend supports sending data as either JSON or XML.

To view the data as XML, run the query in a curl command by adding the -H switch set like the following:

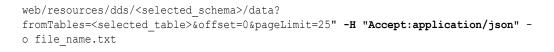
```
curl "http://<dds_host>:<dds_port>/dynamic-data-service-web/resources/dds/
<selected_schema>/data?fromTables=<selected_table>&offset=0&pageLimit=25" -H
"Accept:application/xml" -u <dds_user>:<dds_pass> -o file_name.txt
```

JSON is the default response format. To return a JSON object, do not include the -H switch in the cURL command.

Or, you can set the cURL command with the -H switch setting Accept to application/json in the header. The cURL with output is as follows:

Curl -i -H "Authorization: Bearer \$AccessToken" -H "Content-Type: application/ json;charset=UTF-8" --request GET "http://<dds_host>:<dds_port>/dynamic-data-service-







Note:

Ensure that the required DDS application username/password is supplied.

JOINing Two or More Tables

DDS has the ability to join two or more tables. This is done using the JOIN element in the Query Builder Tab under the Designer section.

Use the check box to enable table joins. Once enabled, click inside the visible text field to view a list of tables. Select one or more tables as required.

Note:

The row filter must be added to this, which can either be done by using the Row Filter in the UI or adding your own rowFilter by typing the required conditions in the GET query box. You must also ensure that all required columns are selected in the column filter, otherwise an error will display when you try to run the query.

	http://rgbu-mum-33.snbomprshared1.gbucdsint02bom oraclevcr.com/2005/dynamic-data-service-web/resources/dds/DDS.RIBEH/data?fromTables=RIB_MESSAGE_10,RIB_MESSAGE_FAILURE t1,RIB_MESSAGE_HOSPITAL_REF12&columnFilter=t0.MESSAGE_FAILURE t1.MESSAGE_NUM=t2.MESSAGE_NUM and t0.FAMILY=t2.MESSAGE_FAMILY and t1.SEQ_NUMBER_LIKE '1'&offset=0&pageLimit=25									
					Þ					
A Resul							< Prev Next >			
ACTIC	ACTION MESSAGE_NUM FAMILY MESSAGE_FAMILY SEQ_NUMBER DESCRIPTION									
	×	1	Receiving	Receiving	1	javax.ejb.EJBException: Error while calling Injector Service.: Exception calling plsql inject. package owner is n	ull or empty string			

A sample GET query with result is as follows:

```
http://<dds_host>:<dds_port>/dynamic-data-service-web/resources/dds/
<SELECTED_TABLE>/data?fromTables=TABLE1 t0,TABLE2 t1,TABLE3
t2&columnFilter=t0.COLUMN1,t1.COLUMN1,t2.COLUMN1,t0.COLUMN2,t1.COLUMN2,t2.COLUMN2
,t0.COLUMN3,t1.COLUMN3,t2.COLUMN3&rowFilter=t0.COLUMN1=t1.COLUMN1 and
```



t1.COLUMN1=t2.COLUMN1 and t1.COLUMN2=t2.COLUMN3 and t1.COLUMN3 LIKE
'1'&offset=0&pageLimit=25

A curl equivalent of the above example:

```
Curl -i -H "Authorization: Bearer $AccessToken" -H "Content-Type: application/
json;charset=UTF-8" --request GET "http://<dds_host>:<dds_port>/dynamic-data-service-
web/resources/dds/<SELECTED_TABLE>/data?
fromTables=TABLE1%20t0,TABLE2%20t1,TABLE3%20t2&columnFilter=t0.COLUMN1,t1.COLUMN1,t2.CO
LUMN1,t0.COLUMN2,t1.COLUMN2,t2.COLUMN2,t0.COLUMN3,t1.COLUMN3,t2.COLUMN3&rowFilter=t0.CO
LUMN1=t1.COLUMN1%20and%20t1.COLUMN1=t2.COLUMN1%20and%20t1.COLUMN2=t2.COLUMN3%20and%20t1
.COLUMN3%20LIKE%20'1'&offset=0&pageLimit=25" -o filename.txt
```

Count of Records

DDS has the ability to fetch the count of records for a particular query. This can be used to fetch count of all records or a limited set of records based on conditions and parameters as required.

GET: http://	//gbu-mum-33.snbom	prshared1.gbucdsint02bom.oraclevo	n.com/7005/dynamic-data-service-wet	/resources/dds/DDS_RIB	EH/data7fromTables=RiB,	MESSAGE&offse	t=0&pageLimit=25	
			• 0 %					
Results								
a a								< to Net >
	for current query: 100	A CONTRACTOR OF A CONTRACTOR O						
ACTION	MESSAGE_NUM	ADAPTER_CLASS_LOCATION	ADAPTER_INSTANCE_NUMBER	ATTEMPT_COUNT	DELETE_PENDING	IN_QUEUE	JMS_QUEUE_ID	MAX_ATTEMPTS
8 ×	1	rib-rms_Receiving_subl	1	7	0	0	jms1	5
8 x	2	rib-rms_Receiving_sub	1	6	0	0	jens1	5
a x	3	rib-rms_Receiving_sub	1	5	0	0	jeis1	5

A sample GET query with result is as follows:

http://<dds_host>:<dds_port>/dynamic-data-service-web/resources/dds/<SELECTED_SCHEMA>/
data?fromTables=TABLE1&offset=0&pageLimit=25

Note:

The count query that is actually being run is slightly different to the one displayed in GET box. The correct one is given below in the curl command equivalent.

A curl equivalent of the above example:

```
Curl -i -H "Authorization: Bearer $AccessToken" -H "Content-Type: application/
json;charset=UTF-8" --request GET "http://<dds_host>:<dds_port>/dynamic-data-service-
web/resources/dds/<SELECTED_SCHEMA>/data/count?
fromTables=TABLE1&rowFilter=<CONDITIONS AS REQUIRED>" -o filename.txt
```

