

Bulk Data Export using API

Oracle Financial Service Lending and Leasing

WHITE PAPER | DECEMBER 2019



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Introduction

This document intends to explain the process of performing bulk export of structured data in machine readable format using API (Oracle BI Publisher).

Pre-requisites

Following are the pre-requisites to be noted:

- » Download the required version of Oracle Financial Service Lending and Leasing release package from e-delivery.
- » Ensure that BI Publisher is installed and JDBC data source is configured. The process for the same is detailed in https://docs.oracle.com/cd/E89525_01/html/BIP_Installation_Guide/BIP_Installation_GuideTOC.htm
- » Ensure that BI Publisher plugin for MS word is installed. If not, follow the procedure detailed in section 'Installing BI Publisher Plugin'.

Assumptions

» It is assumed that you are familiar with basics of BI Publisher, SQL and Microsoft Word usage.

Bulk Data Export

Following are the steps to be followed while doing a bulk data export using BI Publisher:

- » Identify required data for export
 - » Look for column details where data exist
 - » Identify relation of column data from main table
- » Create Data Model
 - » Create Data Set using SQL query
 - » Define Parameters with variable elements
 - » Export variable parameter data in XML format
 - » Create reporting template using BI Publisher plugin
 - » Import and upload template in BI Publisher
 - » Map reporting template to Data Model in BI Publisher
 - » Customize Data Output format
- » Generate Data in BI Publisher
- » Export BI Publisher data to required format

The above steps are explained in detail in the subsequent section using sample data to indicate data export functionality. However, since exporting data has to comply with confidentiality norms, it is recommended to contact your IT staff for assistance.

Sample Data Export

As a sample exercise, assume you need the data of portfolio companies associated with matching accounts. To know how to extract the details of the same from database, refer to the below sections.

Identify Required Data for Export

The first step in data extraction is to identify the required data and its location in the database.

Look for column details where data exist

- » In the Oracle Financial Services Lending and Leasing release directory access the tech doc which is available in the path (<user directory>\LL\release\<OFSLL version>\docs\techdoc). Unzip the files and open 'Index.html'.
- » Search and select the appropriate table which matches the data you need. As indicated below, searching for 'companies' displays the table PORTFOLIO_COMPANIES which has the required field information. On clicking the same, you can identify the column to which it is mapped in the database.

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| Tables Views Indexes | PORTFOLIO_C | | aers Deper | dencies | Detais Partitions In | lexes | |
| Packages Types | | | | | | | |
| Sequences | COLUMN NAME | DATA TYPE | NULLABLE | | DATA DEFAULT | COLUMN ID | COMMENTS |
| Directories | PTC_COMPANY | VARCHAR2(30 BYTE) | No | null | | 1 | Name of Portfolio Company |
| OfsilCommonCSF | PTC_ID | NUMBER | No | 0 | | 2 | Unique generated id from sequence |
| OracleFSILCommon OracleFSILCommonModel | PTC_NAME | VARCHAR2(80 BYTE) | No | null | | 3 | Name of company |
| OracleFSLLCommonUI | PTC_SHORT_NAME | VARCHAR2(30 BYTE) | No | null | | 4 | A shortened name, alias or DBA of company |
| | PTC_ADDRESS1 | VARCHAR2(80 BYTE) | Yes | null | | 5 | First line of address for this company |
| Tables | PTC_ADDRESS2 | VARCHAR2(80 BYTE) | Yes | null | | 6 | Second line of address for this company |
| compan | PTC_CITY | VARCHAR2(80 BYTE) | No | null | | 7 | City where company is located |
| COMPANY | PTC_STATE_CD | VARCHAR2(30 BYTE) | No | null | | 8 | State name where company is located |
| COMPANIES COMPANY BRANCHES | PTC_ZIP | VARCHAR2(30 BYTE) | No | null | | 9 | First 5 digits of Zip Code of company |
| COMPANY BRANCH CHECK DETAILS | PTC_ZIP_EXTN | VARCHAR2(30 BYTE) | Yes | null | | 10 | Last 4 digits of Zip Code of company |
| COMPANY BRANCH DEPARTMENTS | PTC_COUNTRY_CD | VARCHAR2(30 BYTE) | No | 'US' | | 11 | Country where company is located such as United States or Canada |
| COMPANY BRANCH DISPLAY FORMATS | PTC_PHONE_NO1 | NUMBER | No | 0 | | 12 | Phone number of company |
| INTER COMPANY TXNS | PTC_PHONE_EXTN1 | NUMBER | Yes | 0 | | 13 | Phone number extension of first phone for company |
| OOINTER COMPANY TXNS | PTC_PHONE_NO2 | NUMBER | Yes | 0 | | 14 | Second phone number of company |
| PORTFOLIO COMPANIES | PTC_PHONE_EXTN2 | NUMBER | Yes | 0 | | 15 | Phone number extension of second phone for company |
| PORTFOLIO COMPANY BRANCHES | PTC_FAX_NO1 | NUMBER | No | 0 | | 16 | Phone number where Facsimile can be sent to company |
| WEP ACCOUNTING COMPANIES | PTC_FAX_NO2 | NUMBER | Yes | null | | 17 | Second phone number where Facsimile can be sent to company |
| | PTC_REMITTANCE_ADDRESS1 | VARCHAR2(80 BYTE) | Yes | null | | 18 | First line of address where payment can be remitted to company |
| | PTC_REMITTANCE_ADDRESS2 | VARCHAR2(80 BYTE) | Yes | null | | 19 | Second line of address where payment can be remitted to company |
| | PTC REMITTANCE CITY | VARCHAR2(80 BYTE) | Yes | nul | | 20 | City name where payment can be remitted to company |

Identify relation of column data from main table

» In Oracle Financial Services Lending and Leasing release - tech doc directory, open the Entity Relationship Diagram available in pdf format with the name ofsll_<version>_erd.pdf. This helps you to identify the relation of the required data from the main table(s).



Create Data Model

Once you have the required information that needs to be extracted from database tables, open Oracle BI Publisher using which you need to create a data model with SQL query.

Create Data Set using SQL query

» In BI Publisher home page, select Data Model from 'New' drop-down list.

| | Publisher Enterprise | Search All | • | Q Administration |
|--------|----------------------|------------|---------|------------------|
| Home | | Home | Catalog | New 🔻 Open 🔻 |
| | | | | 📙 Report |
| Create | Recent | | | 눦 Report Job |
| Report | Reports | | | 📜 Data Model |
| | | | | A Style Template |

» Click '+' button and create a data set as indicated below. In 'Data Source' field, ensure that the same data source is used as configured during BI Publisher installation. For information, refer to the following link https://docs.oracle.com/cd/E89525_01/html/BIP_Installation_Guide/Creating_BIPDatasource.htm



» While building the query, ensure that the three components; select, from, and where clause are defined accurately based on requirement. In the image below, the 'Select' statement indicates the elements being presented in the output, the 'From' statement indicates from where the elements are being called, and the 'Where' statement indicates the criteria on which the elements are being represented.



Define Parameters with Variable elements

- » In BI Publisher, click 'Parameters' and define the values for each parameter that is identified as the variable element. In the above query, information for the following variables are to be generated:
 - » ACC_NO Account Number
 - » COMPANY Portfolio Company Name
 - » COMP_ADDR1 Portfolio Company Address
 - » COMP_ADDR2 Portfolio Company Address
 - » COMP_PHONE Portfolio Company Phone
 - » CUS_NAME Customer Name associated with Account

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| Properties | + × | | | | | |
| Data Sets | *Name | Data Type | Default Value | Parameter Type | Row Placement | Reorder |
| paid_infull_ltr Event Triggers | P_LTR_JRQ_D | String 🔻 | | Text 💌 | 1 文 | |
| ▲ Flexfields | P_APP_ACC_NBR | String • | | Text 💌 | 1 🚖 | • |
| List of Values Parameters | P_CRT_BATCH_J | String - | Ν | Text 🔻 | 1 | |
| [■]] P_LTR_JRQ_ID | P_USR_COM_COI | String • | O-0001 | Text 💌 | 1 📚 | ▲▼ |
| ⊡]]P_APP_ACC_NBR ⊡]]P_CRT_BATCH_JOB | INE P_USR_CMB_BR/ | String • | OD-001 | Text • | 1 | * |
| I P_USR_COM_COMP | P_CRT_BATCH_J | String - | Ν | Text 💌 | 1 🚔 | AV |
| []] P_USR_CMB_BRANC []] P_CRT_BATCH_JOB | P_LTR_JRQ_ID: | Type: Text | R_JRQ_ID1 | | | |

- » Also, the display label specified here will be used as field name as displayed in Data tab below. For example: P_LTR_JRQ_ID
- » Select 'Data Set' link from LHS and navigate to Data tab. Here you can specify the value for each variable parameter which is queried from database to fetch the matching records.

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| | | |
| Data Model | Diagram Structure Data Code | |
| Properties | P_LTR_JRQ_ID | P_APP_ACC_NBR |
| ▲ Data Sets | P_CRT_BATCH_JOB_IND N | P_USR_COM_COMPANY 0-0001 |
| paid_infull_ltr | P_USR_CMB_BRANCH OD-001 | |
| Event Triggers | | |
| ▲ Flexfields | Rows 5 View Export | Save As Sample Data View Engine Log |
| List of Values | | |
| Parameters | | |

As indicated below, on specifying the account number in P_APP_ACC_NBR parameter and clicking on 'View', the following details are fetched from database.

| | Enterprise |
|--------------------------|--|
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| Data Model | Diagram Structure Data Code |
| Properties | P_LTR_JRQ_ID P_APP_ACC_NBR 20000100011812 |
| ▲ Data Sets | P_CRT_BATCH_JOB_IND N P_USR_COM_COMPANY 0-0001 |
| paid_infull_ltr | P_USR_CMB_BRANCH OD-001 |
| Event Triggers | |
| Flexfields | Rows 5 View Export Save As Sample Data View Engine Log |
| List of Values | ROWSET |
| ▲ Parameters | ⊿ ROW |
| []]P_LTR_JRQ_ID | ACC_NO (20000100011812) |
| [⊒]] P_APP_ACC_NBR | COMPANY (DEMO BANK USA) |
| [⊒]] P_CRT_BATCH_JOB_INE | BRANCH (USHQ) |
| [⊒]] P_USR_COM_COMPANY | COMP_ADDR1 (LINE1) |
| [⊒]] P_USR_CMB_BRANCH | |
| [∎]] P_CRT_BATCH_JOB_INE | COMP_CITY_STATE_ZIP (MINNEAPOLIS MN 55344 7255) |
| ▲ Bursting | |
| | |
| | |
| | |
| | ADR ADDRESS1 (745) |
| | ADR ADDRESS2 |
| | CITY_STATE (newvork MA 34038.) |
| | COLLATERAL (2006 CHEVROLET MONTECARLO 2DR-2B4GP45G1XR378252) |
| | ACC_LOAN_CUR_CURRENCY_CODE (USD) |

Export variable parameter data in XML format

» Save the query details clicking on 'Save As Sample Data'. Click 'Export' and export the sample data to a local directory.



Create reporting template using BI Publisher plugin

- » Using the exported sample data, create template in Microsoft word using the BI Publisher plugin. For information on plugin configuration, refer to section <u>'Installing BI Publisher Plugin</u>'.
- » Open Microsoft Word and in the BIP tab, click 'Sample XML' and import the sample data.

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| | Sample XML | | | | | | _ | | | | | | | |
| | BI Publisher Template Builder for Word Tell me more | | | | r for | | | | | | | | | |
| | | | | | | | | | | | | | | |

» You can either use an existing template to represent the data from tables or create a temple of your choice. For instance, the below image indicates data being presented in list form using fields and subsequent image indicated data being presented in table format.

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| Log Log On View | Off en w Report On | Upload Upload Save XM | Template Template As /IL Data | Sample XML | 유 XML Schema | Table Wizard | Pivot Char Table | tt Field | Form ting Group sert | E Conditiona Conditiona | l Format I Region | 🔁 PDF 🗟 HTML 👯 Excel | Excel2000 Em RTF P PowerPoint Preview | E DOCX |
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Tables also can be used when multiple records are to be extracted for same set of fields.

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|---|---|---|---|--|--|
| Table Wizard | Which fields do you want ACC_NO COMPANY BRANCH COMP_ADDR1 COMP_CITY_STATE_ COMP_PHONE COMP_PANA ACC_TITLE CUS_IRST_NAME ADR_ADDRESS1 ADR_ADDRESS2 | COMPANY COMPADR1 COMPADR2 COMPADR2 COMPANNE CUS_NAME | 2 v sl Finish | | |
| ACC_NO F ACC_NO | COMPANY | COMP_ADDR1 | COMP_ADDR2 | COMP_PHONE | CUS_NAME |

The BI Publisher helps to visualize on how the data from tables would be represented in the template layout. Also the BI Publisher plugin supports multiple options to create template. For information on other supported options, refer 'Template Builder for Word Tutorial' document.

- » Once done, save the template in RTF (Rich text format) format. You can also choose other required format which are in common for export and import.
 - The common supported export formats of Microsoft Word / Excel are doc, xls, rtf, xml and html and BI Publisher supports importing files in rtf, pdf, xls, xsl formats.

Import and upload template in BI Publisher

» The next step is to import the template in BI Publisher. Select Catalog link in the LHS menu, click '+' and select 'Report'.



» By default, the BI Publisher interface provides you with Create Report option. Since you need to upload a predefined report template, click 'Cancel' and close the Create Report window. » Select 'Upload or Generate Layout' option in the second section. In the 'Upload Template File' dialog specify the required details (Layout Name, Type, Locale), browse to the existing RTF file and click 'Upload'.

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| Upload or Generate | | | |
| | ad RTF, PDF, Excel, Fla Stylesheet, or eText | sh, | Generate RTF layout based on selected Data Model. |
| 1 temp | late file. | | |
| | | | |
| Upload | | Generate | |

Map reporting template to Data Model in BI Publisher

» Once the template is uploaded, map the template to Data Model in BI Publisher to fetch and present the data. Click the Search icon and select the data model created.

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| Select Data Model | | | |
| | Select Data Model | | @ × |
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| | | | |

» On mapping the data model to the template, click 'Save'.



» In the Save As window, specify a name and save the mapping.

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| Data Model Icspdf_em_111_01 Q + | Catalog My Folders Shared Folders Components Components Components Correspon Corr | Save Cancel |

Customize Data Output format

BI Publisher by default displays the output data in pre-defined format (html or so on) and the same can be customized as per requirement. In this case a machine readable output such as xml or csv is required, and hence the default format is to be set.

» Click 'View a List' option and select the required formats (XML, CSV and so on) in 'Output Formats' drop-down list. If you are in the reporting format screen, select and click 'Edit Report' to view this screen.

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| | | | | ~ | | | | | | | | | | |
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| | Portfolio_Companies | sample_template.rtf | rtf | HTMLEPDF.RTF.Exv PDF/A PDF/X Zipped PDFs FO Formatted XML Data (XML) Data (CSV) | | HTML | • | V | | V | V | English | | A.¥ |

» Also select the 'Default Format' (as XML / CSV) in which the output data is to be represented and 'Save' the details.

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| | Portfolio_Companies | sample_template.rtf | rtf | HTML;PDF;RTF;Ex | * | HTML HTML PDF RTF Excel (*xisx) PowerPoint (*.pptx) Data (XML) Data (CSV) | | | | | English | | • |

Generate Data in BI Publisher

» Using the search field at the top, enter the name of report and click search.

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|--|------|---------|------|-------|-----------|-----|----|
| Search | | | Home | Ca | talog | New | • |
| | port | | | Searc | h | | |
| Showing results 1-10 of 67 Folders;Reports;Data Model 💌 | | | | | | | |
| Portfolio_companies Last Modified 3/8/18 3:19 PM Calcutta Created By devuser Location: /oracle/fill.xmlp/letters Open Schedule Job History Edit | | | | | | | |
| reports Last Modified 3/7/18 2:55 PM Calcutta Created By devuser Location: /oracle/fll/xmlp/reports | | | | | | | |
| report_app_dm report_app_dm Last Modified 3/7/18 2:55 PM Calcutta Created By devuser Location: /oracle/III/xmlp/reports | | | | | | | |

» Click on the matching report in search results. BI Publisher by default displays a blank report since parameter values are not yet provided.

» Specify the values for the defined parameters to fetch the corresponding details from the database into the report. Once done, click Apply. The report is generated in XML format (default) with the matching records from the database as indicated below.

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| S 18 7 11 - | | | | | | | | | |

» Also on selecting CSV from the 'View Report' option, the output generated in CSV (comma separated values) format as indicated below:

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2. Save the binary file on to local directory and install the plugin.

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Integrated Cloud Applications & Platform Services

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