

The "Export Data" Window

It can be useful to pick a few records from a Business-Object, and show a few columns of each record's data in a grid.

Orixa has a Export Data mechanism to allow this to be done.

Not all Business-Objects have "Export-Data" switched on, so you will not see this feature in all your Business-Objects. If you need to extend your system and switch it on, your administrator can do this fairly easily.

All that is needed is to add the Decoration :

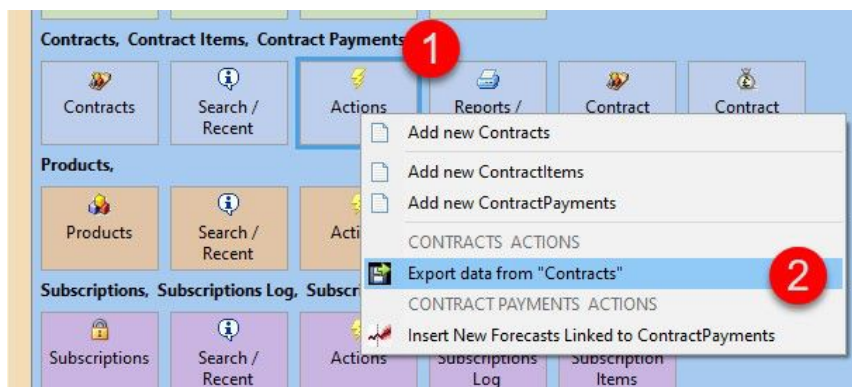
"DESCRIPTION '[Properties]

AddDataExport=1'

to the BusinessObject data-table definition.

Exporting data from a business-object

To open the "Export Data" window, start from the "Actions" menu, and select it, as shown below.



Accessing the "Export Data" Action

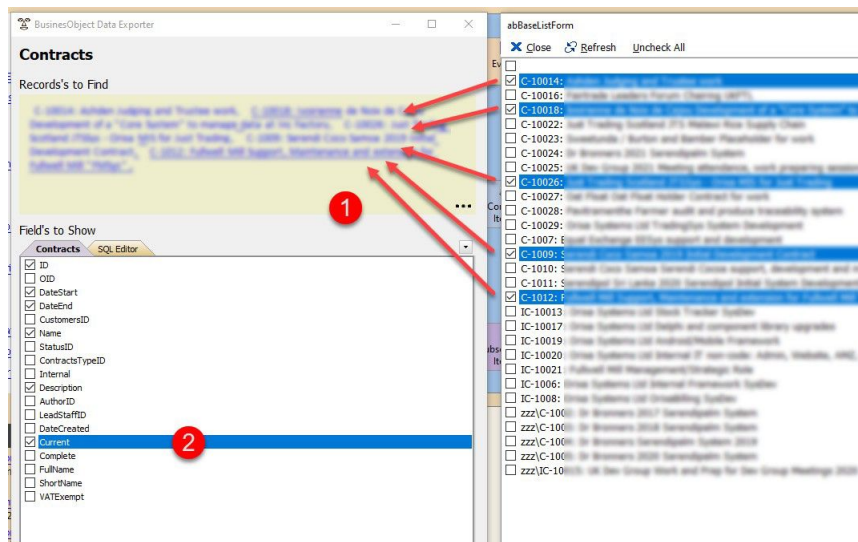
Components of the Business Object Data Exporter Window

The screenshot shows the 'BusinessObject Data Exporter' window. At the top, the title bar says 'BusinessObject Data Exporter'. Below it, the main area is divided into sections. The first section is titled 'Contracts' (callout 1) and contains a 'Records's to Find' label above a large yellow rectangular area (callout 2). Below this is a 'Field's to Show' section (callout 4) which has two tabs: 'Contracts' and 'SQL Editor'. The 'Contracts' tab is active, showing a list of fields with checkboxes: ID, OID, DateStart, DateEnd, CustomersID, Name, StatusID, ContractsTypeID, Internal, Description, AuthorID, LeadStaffID, DateCreated, Current (highlighted in blue), Complete, FullName, ShortName, and VATExempt. A red callout 3 points to this list. At the bottom left, there is a text box (callout 6) with instructions: 'Use this Form to create custom-views of data from a BusinessObject. Select Record-IDs, and the fields you wish to view, and click "show records". If you have an understanding of SQL You can write a "WHERE" clause to further limit the records shown.' At the bottom right, there are two buttons: 'Show Data' and 'Close' (callout 5).

The Business Object Data Exporter

1. The name of the Business Object who's data you are exporting
2. The "Records to Find" List. This will show records once you select them in the next step.
3. The Fields List, this shows all the fields in one table of the Business Object. Note that if the Business Object has multiple tables multiple tabs will show.
4. The SQL Editor. This shows the SQL Code that will return the records you want from the database. This is useful as you can add to and amend this SQL if you need to, to change the data that is returned.
5. Buttons to "Show Data" and Close the window.
6. At the bottom of the window an information panel explains how to use different parts of the window.

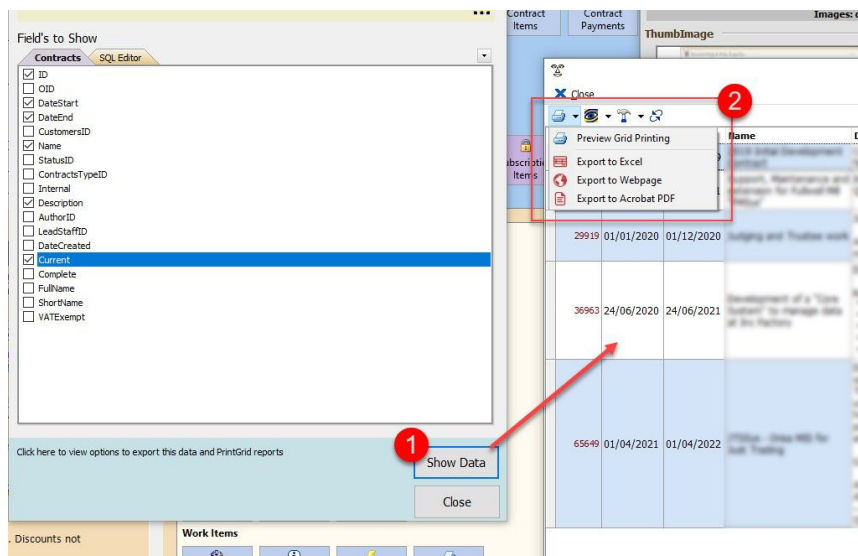
Selecting Records and Fields



Selecting Records and Fields

1. Double-click on the "Records to find" field and a list of records will open. Tick the ones you want to view after export. **Note** this list can be searched by clicking on it and typing, which will filter the list.
2. Click on the fields you want to view. **Note** there may be more than one heading, with different fields listed in each one.

Showing Data

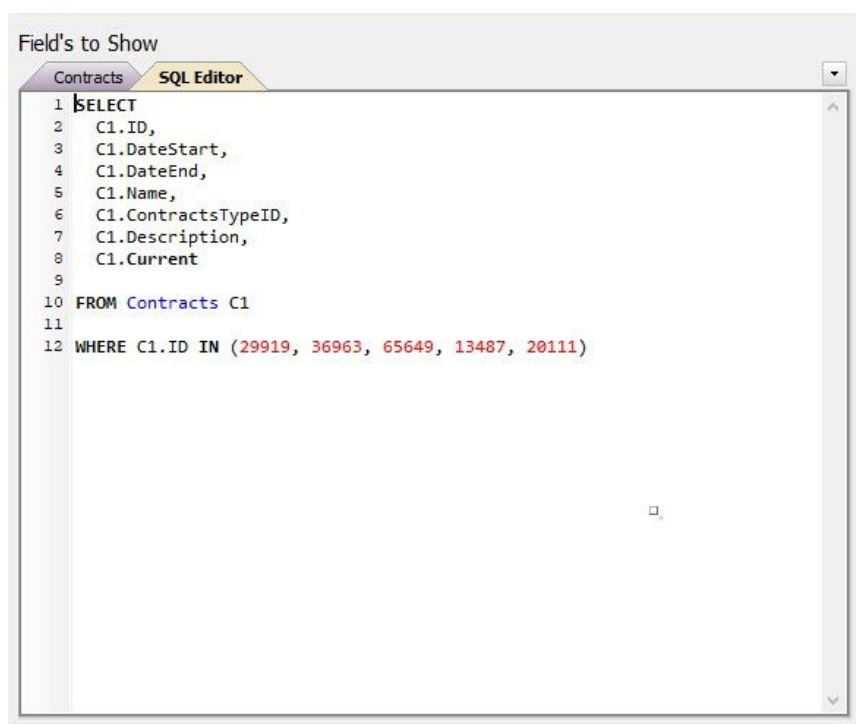


Showing data, and exporting it to a new format

1. Once you have selected the records and fields you want to view, click "Show Data" to open a grid containing the records. **Note** once the grid is open you can arrange and group the fields and columns into a form you are happy with, before exporting to Excel, HTML or PDF.
2. Click the grid's "print / export" button and select the type of file you want, and save it so you can use the data outside of you Orixia App.

Advanced features

SQL Editor



SQL Editor in the Data Exporter

The image above shows some typical SQL generated by the Data Exporter. **You can edit this SQL** For example you could extend the list of IDs by adding additional ones you know you need to view, or add other data-tables to the SQL using **JOINS**. Actually undertaking these changes to the SQL is beyond the scope of this article, please review other Orixia help-pages searching for "SQL" for more information.

An important limitation of the Data Exporter

In the above image showing SQL you can see that one field is listed as "C1.ContractsTypeID", when this SWL is run the following data appears:

ID	DateStart	DateEnd	Name	ContractsTypeID	Description
13487	01/09/2019	01/12/2019		10289	
20111	01/01/2019	31/12/2021	Support, Maintenance and Training for the Cultural Heritage of the Kingdom of Saudi Arabia	12708	
29919	01/01/2020	01/12/2020	Building and Training for the Cultural Heritage of the Kingdom of Saudi Arabia	10289	
36963	24/06/2020	24/06/2021	Development of a Training Programme for the Cultural Heritage of the Kingdom of Saudi Arabia	10289	

Exporting an "ID" field

You can see that the "ContractsTypeID" field is exported as **number** not as readable text.

If you want to see readable text instead of the number, you must manually extend the SQL in the SQL editor, adding a **JOIN** to the "Types" table. This is a somewhat complicated bit of SQL coding, but is not difficult to learn.

Modify the SQL shown in the image above so it looks like this:

```

SELECT
  C1.ID,
  C1.DateStart,
  C1.DateEnd,
  C1.Name,
  T.Name as ContractsType,
  C1.Description,
  C1.Current
FROM Contracts C1
  LEFT JOIN Types T ON T.ID = C1.ContractsTypeID
WHERE C1.ID IN (29919, 36963, 65649, 13487, 20111)

```

Note that the number field "ContractsTypeID" has been removed from the SELECT part of the SQL and replaced with "T.Name as ContractsType",

and a JOIN has been added to the Types table "T".

Once this change is made, the data will show as in the image below, with the "ContractsType" field rendered as readable text.

```
1 SELECT
2 C1.ID,
3 C1.DateStart,
4 C1.DateEnd,
5 C1.Name,
6 T.Name as ContractsType,
7 C1.Description,
8 C1.Current
9
10 FROM Contracts C1
11 LEFT JOIN Types T ON T.ID = C1.ContractsTypeID
12
13 WHERE C1.ID IN (29919, 36963, 65649, 13487, 20111)
```

ID	DateStart	DateEnd	Name	ContractsType	Description
13487	01/09/2019	01/12/2019	2019-2020 Development Contract	One-off	Contract for the development of a new system for the company's internal management.
20111	01/04/2019	31/12/2021	Support, Maintenance and Upgrade for Future Release	Quarterly	Internal CRM, HR, Warehouse Management, Quality Management, etc. to the company.
29919	01/01/2020	01/12/2020	Budgeting and Finance system	One-off	Budgeting of Assets, Accounting, etc.
36963	24/06/2020	24/06/2021	Development of a "New Contract" to manage data of the Factory	One-off	With a Single Contract, we can reference the development of a new system for the company's internal management.

Exporting an "ID" field so it can be viewed as readable text