

Big Object Utility

Utility to view, filter and export big object records with ease.

Numaan Mohd
CLOUD BAT



 @cloudbat_tech

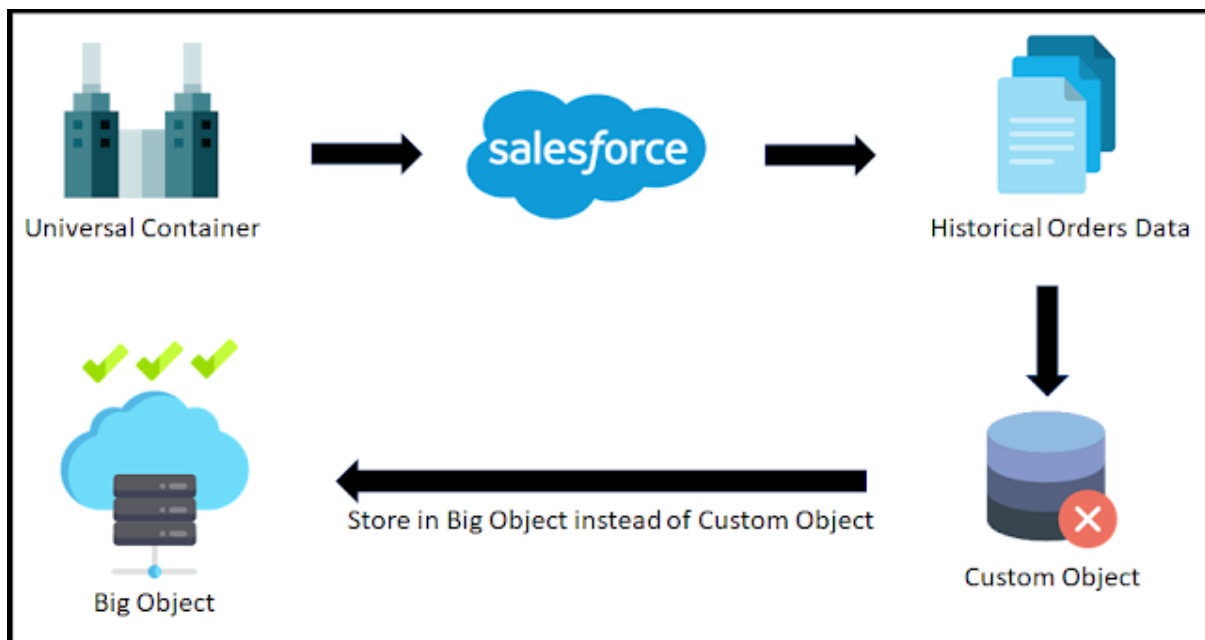
Contents

What are Big Objects	2
Creating Big Objects.....	3
Storing Data in Big Object	4
View Data	5
Filter Data.....	6
Export Data	7
References	8

What are Big Objects

Big Objects allows you to store and manage a massive amount of data on the Salesforce platform.

Let's take a simple example and understand the usability of the Big Object. The Universal container company (You might be knowing this name if you have done any certification) has recently migrated to Salesforce and have lot of historical orders data which they want to keep for the future purpose. Now a day's historical data is very important for analysing. Probably lot of us will think to create a custom object and store the data but there is problem in doing that. Here the data is in millions and storing in custom object is not a good idea because it will hit our storage limit. The solution to these kinds of scenarios is by using Big Object where we can store millions of records. Yes, you heard it right millions of data. Check the below figure for the clear understanding.



Creating Big Objects

We can only create Big Object by using Metadata API. We just need three xml files.

1. Object
2. Permissionset
3. Package

You can get these files from [here](#). Change value in the files as per your requirement. We can deploy it using Workbench or ANT or any other tool.

I am using workbench. I think showing the example in the video is better than explaining in words.



[Video Link](#)

Storing Data in Big Object

We can store the records using three different approach.

1. csv file
2. Apex
3. Async SOQL

First approach is the easy one. We can store the data using .csv file. In the first row give the field names and values in the rest of the rows. Use Workbench or Data Loader to upload this file.

	A	B	C	D	E
1	Order Number	Product	Order Account	Order Date	Quantity
2	OD0001	Xilo	0017F00000LhomvQAB	2018-01-01T23:01:01Z	10
3	OD0002	Phantom	0017F00000LhomwQAB	2018-02-01T23:01:01Z	20
4	OD0003	Rex 5	0017F00000LhomxQAB	2018-01-01T23:01:01Z	30
5	OD0004	Zico 2	0017F00000LhomyQAB	2017-03-01T23:01:01Z	40
6	OD0005	Hydra	0017F00000LhomzQAB	2017-01-01T23:01:01Z	50

View Data

Once you have the data in your big object. Just go the Big Object Utility, Select an Object and there you see the data of big object.

A page to view, filter and export big object records

Select an Object: Archived_Order__b

Show Conditions: Inactive

Records Count: 1435

Export as csv

ID	CREATED DATE	ORDER ACCOUNT	ORDER DATE	VIEW RECORD
0000000000000000AAA	2018-06-27T18:16:17.705Z	0011H00001PAwaYQAT	2014-03-17T18:30:00.000Z	View
0000000000000000AAA	2018-06-27T18:16:17.704Z	0011H00001PAwaXQAT	2014-03-16T18:30:00.000Z	View
0000000000000000AAA	2018-06-27T18:16:17.704Z	0011H00001PAwaWQAT	2014-03-15T18:30:00.000Z	View
0000000000000000AAA	2018-06-27T18:16:17.704Z	0011H00001PAwaVQAT	2014-03-14T18:30:00.000Z	View
0000000000000000AAA	2018-06-27T18:16:17.703Z	0011H00001PAwaUQAT	2014-03-13T18:30:00.000Z	View

Note: Due to page capacity to load the data, we have limited the number of records. You can always use the filters to get the desire data.

There is an option in big object utility to view the complete details of the record. Just click on the view button which is on the list view. If there is any view which you are not able to see, please check the field level permissions.

A page to view, filter and export big object records

Select an Object: Archived_Order__b

Show Conditions: Inactive

Records Count: 1435

Export as csv

ID	CREATED DATE	ORDER ACCOUNT	ORDER DATE	VIEW RECORD
0000000000000000AAA	2018-06-27T18:16:17.705Z	0011H00001PAwaYQAT	2014-03-17T18:30:00.000Z	View
0000000000000000AAA	2018-06-27T18:16:17.704Z	0011H00001PAwaXQAT	2014-03-16T18:30:00.000Z	View
0000000000000000AAA	2018-06-27T18:16:17.704Z	0011H00001PAwaWQAT	2014-03-15T18:30:00.000Z	View
0000000000000000AAA	2018-06-27T18:16:17.704Z	0011H00001PAwaVQAT	2014-03-14T18:30:00.000Z	View

Filter Data

There is a toggle button called show condition in the Big Object Utility to filter the data. Click on the button and you will see the section filter conditions below. Provide the values for the condition and click on Search button. All the values in the condition fields are mandatory as there all are indexed fields.

The screenshot shows the 'Big Object Utility' interface. At the top, there's a navigation bar with 'Big Object App' and 'Big Objects Utility' tabs. A search bar is visible. Below the navigation bar, a header states 'A page to view, filter and export big object records'. The main area contains a 'Select an Object' dropdown set to 'Archived_Order__b'. To its right is a 'Show Conditions' toggle switch, which is currently turned on (Active). Further right, the 'Records Count' is displayed as '1435', and an 'Export as .csv' button is present. Below these elements is a 'Filter Conditions' section, outlined with a green border. It contains a table with three columns: 'FIELD', 'OPERATOR', and 'VALUE'. The table has two rows: one for 'Order Account' with the operator 'equals', and another for 'Order Date' with the operator 'equals'. Each 'VALUE' column has an empty input field with an information icon. At the bottom right of the filter section, a red note states '*All the filter values are mandatory'. Below the note are 'Search' and 'Clear Search' buttons.

FIELD	OPERATOR	VALUE
Order Account	equals	
Order Date	equals	

Note: Only the index fields can be used to filter the data in big objects.

Export Data

There is an export button which will export the complete data which is show on the page as .csv format.

The screenshot shows the Salesforce Big Object App interface. At the top, there's a navigation bar with the app name 'Big Object App', a search bar, and user profile icons. Below this, a sub-header reads 'A page to view, filter and export big object records'. The main area contains a 'Select an Object' dropdown menu set to 'Archived_Order__b', a 'Show Conditions' toggle switch labeled 'Inactive', and a 'Records Count' of '1435'. A blue button labeled 'Export as .csv' is highlighted with a green rectangle. Below this, a table displays the first three records of the data set.

ID	CREATED DATE	ORDER ACCOUNT	ORDER DATE	VIEW RECORD
0000000000000000AAA	2018-06-27T18:16:17.705Z	0011H00001PAwaYQAT	2014-03-17T18:30:00.000Z	View
0000000000000000AAA	2018-06-27T18:16:17.704Z	0011H00001PAwaXQAT	2014-03-16T18:30:00.000Z	View
0000000000000000AAA	2018-06-27T18:16:17.704Z	0011H00001PAwaWQAT	2014-03-15T18:30:00.000Z	View

References

Trailhead Module – [Big Objects](#)

Big Objects Implementation Guide - [Link](#)