

# YourMoney and the NJOIT Open Data Center

A guide to using the new Open Data Center and to understanding differences between it and the original YourMoney's online query engines.

## The Open Data Center

### Using the Catalog View

The Open Data Center (ODC) has a catalog view that lists all datasets, documents, and views. This catalog can be searched and filtered across multiple categories, such as type of dataset, transparency category, key word or agency name.

While you can reach a specific dataset from its link in YourMoney, you can also locate it in the catalog view. The catalog home page is at [data.nj.gov](http://data.nj.gov).

## Explorers

Looking for the Employee Payroll and Pensions query engines?

Use our Agency Payroll, Authority Payroll and Retired Pension Explorers.

They replace the Online Query Engines.



## YourMoney Datasets

### Differences in Data Presentation

All YourMoney data sets with the exception of property tax data have been moved into the Open Data Center. This includes: **Revenue, Expenditures, Purchasing, Public Payroll and Pensions**. In addition, **Debt Reports, Annual/Other Reports** and the **Governor's Budget Detail** are also cataloged so that they can be searched. Property tax will be converted at a later date. YourMoney is being updated to link to these datasets.

## What is the NJOIT Open Data Center?

Governor Christie's 2010 YourMoney web site was a groundbreaking (and award-winning) enabler of government transparency. It delivered to the public, for the first time, formal and consistent access to the State's financial-related data.

The Open Data Center (ODC) extends this capability to all State data – not just financial data. Data is also better organized and described.

The ODC also provides functionality. It enables sophisticated filtering, sorting and charting capabilities. In addition, it offers three very exciting features: the ability to search across all datasets and documents, the ability of a member of the public to save for future reference a customized view of data, and, an open application programming interface.

Here are some changes in appearance or functionality that apply across all or most categories:

## YourMoney Web Page Links

- Links for current and previous year have been eliminated as data for all years is in one dataset and the data consumer can filter on the desired year.
- Additional data beyond current and previous year is now available, in some cases going back to Fiscal Year 2003 (see table at end of this document).
- Links representing multiple sort orders or drill downs have been eliminated, as the data consumer can sort, filter and summarize data as desired, and save it for future reference.
- Links for standalone reports and graphs have been eliminated as data consumers can create their own and save them for future reference.
- Links for separate downloadable files have been eliminated, as the data consumer has multiple export options available for each dataset, including CSV, Excel, PDF and a variety of formats useful to developers. In addition, the export options reflect the sort and filter that have been applied, so the data consumer can download only the data of interest.

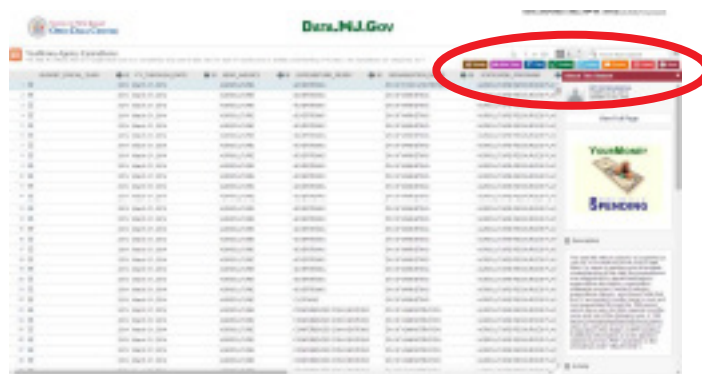
## Basic Tabular View

- All columns are visible and sortable in all datasets. Data consumers can change the order that the columns appear or hide individual columns from displaying and save that as a view for future reference.
- All datasets are accessible through an application programming interface (API).
- Where repeating data (such as the agency name) may have been suppressed in subsequent rows in YourMoney, it is visible in every row by default in the ODC. This is the standard behavior of the ODC platform.

- Data consumers do not need to click through multiple pages of data to see all data. All records are now available and the data consumer can scroll from the first row to the last.
- Data consumers can search for a word or value occurring anywhere in the dataset by using the search bar in the upper right, above the menu.
- In addition to the default **TABLE** view (all columns extend horizontally, often off the screen), two other standard views are available. **RICH LIST** view collapses all columns so that all appear on the screen. Row height is determined by the number of columns. **SINGLE ROW** view displays a single record in a vertical list.

## ODC Dataset Menu

The menu is in the upper right below the search.



- **MANAGE:** All columns in the dataset are visible, but individual columns can be hidden by the data consumer. Data consumers can also change the order that the columns appear, and can save that as a view for future reference.
- **MORE VIEWS:** Data consumers can locate other views they or the State have published based upon this dataset.
- **FILTER:** Data consumers can add conditional formatting to data and save it for future reference. Data consumers can sort, roll up (summarize) and filter data and save it as a view for future reference.



- **VISUALIZE:** Data consumers can display data on a calendar or a map (if appropriate). They can also display data in one of eleven chart types.

- **EXPORT:** Data consumers can export into multiple formats, as well as print the data and access it programmatically through the API. Using Microsoft Excel 2010 or 2013, data consumers can create a spreadsheet in Microsoft Excel connected directly to the dataset to analyze or visualize this dataset. By using an OData link, the data will be refreshable.

- **DISCUSS:** At this time, discussion is disabled.

- **EMBED:** Data consumers can embed the dataset directly into a web site using the provided link.

- **ABOUT:** Data consumers can read a summary description of the dataset. Most datasets will have a PDF file as an attachment that describes each column in the dataset in more detail.

You must create a login account and sign in to save views that you have created.

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## Additional Information

Most datasets will have an “As of Date” or a “Fiscal Year through Date” in addition to an identifying year. The Payroll datasets combine both master and detail records. When selecting an external dataset or a document, a metadata screen opens first. You will need to click the External Link button that appears on the right side of the screen to open the document. Here are some additional tips.

### Main Catalog Page

There are multiple options to find information. Once the type of data is identified, use one of the following to isolate the subject matter (Revenue is used as an example):

- Enter “Revenue” in the Search box on the upper left side
- Select Datasets under the View Types menu on the left side
- Select Revenue Data under the Governor’s Transparency menu on the left side
- Select Governor’s Transparency Data under the Categories menu on the left side
- Page through the Search & Browse Datasets and Views

Use the **Clear All Options** button on the left side of the screen between each new search. If you do not, your searches are cumulative (more restrictive), finding only the data in the first result that matches the second search.

### Within a Dataset

Datasets can be viewed in their entirety or filtered to specific requirements. Basic filtering tips are below:

- Filter with the Menu button (the three-bar icon on the right of each column heading)
  - o Select “Filter This Column”
  - o Enter the criteria for filtering
- Sort by clicking a column name
- Export into your selected format

Detailed information on filtering can be found in our HELP SECTION. Note, once advanced filter conditions are applied to dataset, access will be limited to the requested fields. In order to add additional information use the **Revert** button next to the dataset name at the top of the screen. Use the **Sign Up** button at the top right of the screen to create an account. You can then save views for future reference. They will not be refreshed when the base dataset is updated.



## Dataset Filtering, Grouping and Roll-Ups to Create a Report

In order to create a report, you first need to organize and summarize your data. You must logically request the data or you will not receive accurate results.

For example, the YourMoney Agency Payroll file contains multiple years of valuable information by employee. You want to find out how many employees are in each agency within the various bargaining units (unions). The steps to create such a report are listed below.

1. Open the YourMoney Agency Payroll file. Click on the blue "Filter" icon on the right.

The screenshot shows a web browser window displaying a payroll data table. The table has columns for 'BARGAINING\_UNIT', 'AS\_OF\_DATE', 'PAYROLL\_ID', and 'LAST\_NAME'. A red circle highlights the 'Filter' icon in the top right corner of the table. A 'Filter' panel is open on the right side of the table, showing options for 'Conditional Formatting', 'Sort & Roll-Up', and 'Filter'. The 'Filter' panel is currently empty, with a button to 'Add a New Filter Condition'.

BARGAINING_UNIT	AS_OF_DATE	PAYROLL_ID	LAST_NAME
1	March 31, 2014		1 REBER
1	March 31, 2014		1 REBER
1	March 31, 2014		2 PRICHETT
1	March 31, 2014		2 PRICHETT
1	March 31, 2014		5 MORGAN
1	March 31, 2014		5 MORGAN
1	March 31, 2014		8 BRENT
1	March 31, 2014		8 BRENT
1	March 31, 2014		9 WATSON
1	March 31, 2014		9 WATSON
1	March 31, 2014		10 KIRKLAND
1	March 31, 2014		10 KIRKLAND
1	March 31, 2014		11 MEDICH
1	March 31, 2014		11 MEDICH
1	March 31, 2014		12 DIONNE
1	March 31, 2014		12 DIONNE
1	March 31, 2014		13 KUPKA
1	March 31, 2014		13 KUPKA
1	March 31, 2014		14 BARNEETZ
1	March 31, 2014		14 BARNEETZ
1	March 31, 2014		15 OBADIA
1	March 31, 2014		15 OBADIA



2. To receive accurate results, you must filter on one year so employees are not counted multiple times.
- Click Add a New Filter and enter your requested values;
    - o CALENDAR\_YEAR is 2014
    - o RECORD\_TYPE is master (Each employee has one master record per year with at least one detail record. An employee may have multiple detail records if they worked in different agencies or held various positions within the same calendar year.)

The screenshot shows a data visualization interface with a table of payroll data and a filter panel on the right. The table has columns for AS\_OF\_DATE, PAYROLL\_ID, LAST\_NAME, and FRS. The filter panel is open, showing two active filter conditions: CALENDAR\_YEAR is 2014 and RECORD\_TYPE is master. The table displays 20 rows of data for the date March 31, 2014, with last names ranging from REBER to ROMAN.

AS_OF_DATE	PAYROLL_ID	LAST_NAME	FRS
1 March 31, 2014		1 REBER	FR
1 March 31, 2014		2 PRICHETT	GE
1 March 31, 2014		5 MORGAN	DE
1 March 31, 2014		8 BRENT	LE
1 March 31, 2014		9 WATSON	NE
1 March 31, 2014		10 KIRKLAND	RC
1 March 31, 2014		11 MEDICH	CA
1 March 31, 2014		12 DIONNE	MA
1 March 31, 2014		13 KUPKA	MA
1 March 31, 2014		14 BARNEETZ	BF
1 March 31, 2014		15 OBADIA	CL
1 March 31, 2014		17 KHAN	AL
1 March 31, 2014		21 RANGANATHAN	KA
1 March 31, 2014		22 MONTEROSSO	GA
1 March 31, 2014		23 OSUAGWU	TIT
1 March 31, 2014		27 GALLAGHER	KA
1 March 31, 2014		28 DUDAR	HE
1 March 31, 2014		30 BETANCOURT	AN
1 March 31, 2014		31 BROWN	SH
1 March 31, 2014		32 TIBBETTS	DA
1 March 31, 2014		33 CORTEZ	AN
1 March 31, 2014		35 ROMAN	RC





3. Click to open the **Sort & Roll-Up** drop down

- Select the **Roll-Ups & Drill-Downs**
- In the first **Group By** field, select **EMPLOYEE\_RELATIONS\_GROUP**
- Click **Add Grouping Column** and select **MASTER\_DEPARTMENT\_AGENCY\_DESC**
- Move down and select **FULL\_NAME** under **Roll-Up**, and **Count** as the function

The screenshot shows a data table with columns 'MASTER\_DEPARTMENT\_AGENCY\_DESC' and 'FULL\_NAME'. The table lists various departments and their corresponding counts. A 'Filter' panel is open on the right, showing configuration for 'Roll-Ups & Drill-Downs' and 'Sort'. The 'Roll-Ups & Drill-Downs' section has 'EMPLOYEE\_R...' selected for the first 'Group By' field and 'MASTER\_DEP...' for the second. The 'Sort' section has 'EMPLOYEE\_R...' selected for the first 'Column' and 'Ascending' for the 'Direction'. The 'Add Column' button is visible at the bottom of the 'Sort' section.

MASTER_DEPARTMENT_AGENCY_DESC	FULL_NAME
>> AGRICULTURE	35
>> BANKING AND INSURANCE	43
>> BOARD OF THE PUBUC UTILITIES	6
>> CASINO CONTROL COMMISSION	8
>> CATASTROPHIC ILLNESS IN CHILDREN	1
>> CHIEF EXECUTIVE	3
>> CHILDREN AND FAMILIES	458
>> CIVIL SERVICE COMMISSION	22
>> COMMISSION ON HIGHER EDUCATION	2
>> COMMUNITY AFFAIRS	150
>> CORRECTIONS	240
>> DIVISION OF ELDERLY ADVOCACY/OMBUDSPERSON FOR TH	5
>> DIVISION OF RATE COUNSEL	6
>> EDUCATION	127
>> ELECTION LAW ENFORCEMENT	19
>> ENVIRONMENTAL PROTECTION	246
>> GOVERNORS COUNCIL ON ALCOHOLISM AND DRUG ABUSE	2
>> HEALTH AND SENIOR SERVICES	180
>> HUMAN SERVICES	888
>> JUVENILE JUSTICE COMMISSION	78
>> LABOR	880
>> LAW AND PUBLIC SAFETY	748

4. The results are in no specific order until you apply the sort function.

- Click the **Sort** button
- Select **EMPLOYEE\_RELATIONS\_GROUP** as the highest sort level
- Click the **Add Column** button to include a second level sort
- Select **MASTER\_DEPARTMENT\_AGENCY\_DESC**
- Click **Apply**

You can save your report (as a view) using the **Save As** button in the upper left of the screen. You must have a user account to do so. Select the **Sign Up** link in the upper right text menu to create an account, or select **Sign In** to continue. You can also download and print by selecting the gray **More** button in the upper right of the screen.



EMPLOYEE_RELATIONS	GROUP	MASTER	DEPARTMENT	AGENCY	DE-SIC	FULL_NAME
1	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		AGRICULTURE			35
2	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		BANKING AND INSURANCE			43
3	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		BOARD OF THE PUBLIC UTILITIES			49
4	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		CASINO CONTROL COMMISSION			9
5	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		CATASTROPHIC ILLNESS IN CHILDREN			1
6	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		CHIEF EXECUTIVE			3
7	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		CHILDREN AND FAMILIES			618
8	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		CIVIL SERVICE COMMISSION			32
9	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		COMMUNITY DEVELOPMENT			3
10	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		COMMUNITY AFFAIRS			150
11	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		CORRECTIONS			210
12	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		DIVISION OF ELDERLY ADVOCACY/OMBUDESMAN FOR THE			5
13	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		DIVISION OF RATE COUNSEL			5
14	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		EDUCATION			137
15	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		ELECTION LAW ENFORCEMENT			19
16	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		ENVIRONMENTAL PROTECTION			268
17	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		GOVERNORS COUNCIL ON ALCOHOLISM AND DRUG ABUSE			2
18	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		HEALTH AND SENIOR SERVICES			130
19	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		HUMAN SERVICES			808
20	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		JUVENILE JUSTICE COMMISSION			19
21	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		LABOR			880
22	ADMINISTRATIVE AND CLERICAL SERVICES (CWA)		LAW AND PUBLIC SAFETY			710

## Transparency Data Period and Frequency in the Open Data Center

### Revenue (fiscal monthly)

YourMoney Agency Revenue – Complete fiscal years since 2003, plus current year to date

YourMoney Agency Revenue Multi-Year – Complete fiscal years since 2003

YourMoney Authority Revenue – Complete fiscal years since 2011, plus current year to date

YourMoney Combined Revenue – Complete fiscal years since 2011, plus current year to date

### Expenditures (fiscal quarterly)

YourMoney Agency Expenditures – Complete fiscal years since 2003, plus current year to date

YourMoney Agency Expenditures Multi-Year – Complete Fiscal years since 2003

YourMoney Authority Expenditures – Complete fiscal years since 2011, plus current year to date

YourMoney Combined Expenditures – Complete fiscal years since 2011, plus current year to date

### Purchasing (fiscal quarterly)

YourMoney Agency Purchasing – Complete fiscal years since 2004, plus current year to date

YourMoney Agency Purchasing Multi-Year – Complete fiscal years since 2004

### Public Payroll (calendar quarterly)

YourMoney Agency Payroll – Complete calendar years since 2010, plus current year to date

YourMoney Authority Payroll – Complete calendar years since 2011, plus current year to date

### Pensions (calendar quarterly)

YourMoney Active Pension Members – Last four calendar quarters reported, rolling

YourMoney Pension Payroll – Complete calendar years since 2011, plus current year to date