EITI SOE database: user guide

Queries, filters, downloads, and API

Table of contents

Table of contents	0
Overview of the EITI SOE database	1
SOE database web interface	1
About/home page	1
Datasets page:	2
Browse the SOE list page:	3
Table page/s, views, and pre-set queries	4
Applying filters	5
IMPORTANT: Remember to click Apply to apply your filters to the data.	6
Removing a filter	6
Accessing the data as CSV or JSON	7
TO LEARN MORE ABOUT CSV EXPORTS:	7
Queries are just URLs and vice versa	8
Querying the data using SQL	9
From the datasets page	9
IMPORTANT	10
Using the SOE database as an API	10
Accessing CSVs	10
Accessing JSONs	10
JSON of query or filter results	12
Table or URL arguments	12
Other links and resources	13
Technical information	13
Version and changelog	13

Overview of the EITI SOE database

EITI's state-owned enterprises (SOE) database is an open access tool that provides regularly updated data on state-owned enterprises. The data covers all SOEs' transactions reported through the EITI since 2017, drawing on disclosures submitted from implementing countries. The data includes payments to governments, disaggregated per revenue stream; links to published audited financial statements; links to stock exchange listings; and commodities sold by SOEs.

The SOE database allows users to:

- explore the data using an interactive website
- query the data using SQL
- share/access the data via an integrated API.

SOE database web interface

The SOE database provides a user-friendly web interface that allows users to navigate tables, filter and search data, and perform other operations. The key pages are described below.

About/home page

The About/home page includes information about the database, a quick link to the list of SOEs from the EITI summary data files and a link to the full SOE database.

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O Back to GTT open dela	Ŕ			
State-owned enterprises data	abase 🔶 🗌			
This database covers SOEs' payments to government and other disclos	ares related to oil, gas and mining activities in ETTI imp	tementine countries.		
This database of state-owned enterprises (SOEs) is a comprehensive re practice UUIDs (universally unique identifiers) to allow for time series ar	source, covering all SOEs' transactions reported throu alysis and interoperability with international database	gh the EITI since 2017. With data on approxim s.	ately 100 SOEs, t	he database uses best
The database draws on disclosures submitted to the EITI from impleme	ting countries and is regularly updated. The data incl	udes:		
Payments to governments disaggregated per revenue stream (GFS e Links to published audited financial statements Links to stock exchange listings Commodities sold by SOEs	oded)			
Available data				
Users can filter data by country, company or sector, or access pre-set on the EITI's API (application programming interface).	ueries tailored to specific user needs. More technical i	users can query the database directly using S0	AL (structured qu	ery language) or through
Browse SOE List A ltd of SOEs from annual Summary Data Files				

Figure 1. EITI SOE database about/ home page

Datasets page:

The datasets page provides access to the tables, views and pre-set queries that are available:

Firstly, users can explore the SOE data:

- The list of SOEs from EITI's summary data files
- Annual SOE payments by governments
- SOE annual revenue generated: data on payments to governments annually from SOEs operating in EITI implementing countries

Users can explore the full database:

- About: information from the 'about' tab on summary data files and EITI reports
- Agencies: data specific to declared government entities
- Companies: data related to declared company payments
- Projects: data specific to declared projects

A custom SQL query is also available.



Custom SQL query



Browse the SOE list page:

This page provides easy access to the SOE data. Users can search by country, sector, commodity, etc and easily access audited financial statements where available.

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SOE L Access a To learn n	ist (view) list of all SOEs operating in i nore about how to use the o	EITI implementin data below, you	g countries. may refer to	the <u>Guide</u> or the	Datasette documentation.				
Filter by									
- column -					·				
APPLY)								
View a	nd edit SQL								
This data	as json, CSV (advanced) or	download the C	sv						
Filters	Commoditie	M NE	Vear a						
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Year 💿	SOE ©		Sector 🛛	Commodities ©	Audited Financial Statement or Equivalent ©				
2018	JABALSARAJ CEMENT	Afghanistan	Mining	n/a	n/a				
2018	KOD-E-BARQ BALK	Afghanistan	Fertliser & power	n/a	n/a				
2019	AFGHAN GAS ENTERPRISE	Afghanistan	Oil & Gas	oil, gas, condensates	https://momp.gov.af/soes				
2019	JABALSARAJ CEMENT	Afghanistan	Mining	n/a	n/a				
2017	KLEVI 10 SH.P.K	Albania	Mining	n/a	n/a				

Figure 3. SOE list page

Table page/s, views, and pre-set queries

SOE specific views and the full database tables allow users to:

- explore the contents of a database by applying sorts, filters, searching for texts, and facets
- import the table/data as JSON or CSV
- create SQL queries using the View and edit SQL button

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• <u>Viev</u> his da	v and edit SQL Ita as json, CS	= V (advanced) or downk	bad the CSV							
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Figure 4. agencies table page

Aside from full tables, the SOE database also has pages for views and saved queries. These work the same way as table pages.

Applying filters

Filters allow you to narrow down your search to the most relevant records. When you visit any table or view page in the SOE database, you will see a filter interface and predefined filters for the data.

E	П	П	

Access a record of the payments to governments annually from SOEs operating in EITI implementing countries. To learn more about how to use the data below, you may refer to the <u>Guide</u> or the <u>Datasette documentation</u>.

Filter by	
- column -	 ✓ contains
APPLY	
Niew and edit SQL	
This data as json, CSV (adv	anced) or download the CSV
Filters	
Country >5	Year 4
Ukraine 62	2018 53
Mongolia 20	2017 47
Trinidad and Tobago 14	2019 41
Democratic Republic of Congo 8	2020 21
Ghana 6	

Figure 5. Notice the filter interface and predefined searches (e.g.country, year)

To apply a filter, select a **column**, an **operation** (e.g. =, contains), and a **value.** Then click **Apply**.

You can apply multiple filters at the same time but you must **apply each filter separately**. For example, to filter the Declared Revenue by year table above for the **year 2018** and for the countries of **Ghana**, **Tanzania**, and **Chad**, you will first:

1. Apply a filter for the year = 2018

EITI	About	Datasets	Browse SOE List	Guides
Declared Revenue by Year (view)				
Access a record of the payments to governments annually from SOEs ope To learn more about how to use the data below, you may refer to the <u>Guic</u>	rating in EITI in the <u>Data</u>	mplementing sette docum	countries. entation.	
Filter by				
Year				

Figure 6. Year filter applied

2. Then **apply** a second filter for **country in Ghana**, **Tanzania**, **Chad**. After pressing **Apply** you will see the resulting filtered data:

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Filter by										
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Year		•	=	✓ 2018						
- column -		•	contains	•						
APPLY	ן									
* View a										
This data	as json, CSV	(advanced) or download the CSV								
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Chad 3 Tanzania 3 Ghana 2 2018 2018 2018	Country () Chad Tanzania Ghana	Year 1 2018 8 SOCIÉTÉ NATIONALE DES MINES ET DE LA GÉOLO STATE MINING CORPORATION (STAMICO) GHANA NATIONAL PETROLEUM COMPANY	KGIE (SONAMIG) 0 11: 3	Declared Amount () 2.0 3557092.0 3759107062.0	Currency () n/a TZS GHS	USD Equivalent @ 0.0 601.97 813941421.7	Share of the Country Total 0.0 0.0 43.37 0.0	 EITI ID 3623et 87a9at 4186bt 0675fc 4939et 44552 	cccd-2f51-4a76-aaa4- 442e8b7 s9c-0a50-4341-8c58- ibe6aa6 6cf-3a84-4084-9cc0- a9ccc68	

Figure 7. Multiple filters applied

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Removing a filter

 Select - remove filter - in the column dropdown of the filter interface for the filter you want to remove. Note that you can remove multiple filters at one time. Click Apply.

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Declared Revenue by Year (view)						
Access a record of the payments to governments annua To learn more about how to use the data below, you ma	lly from SOEs operating in EITI ir y refer to the <u>Guide</u> or the <u>Datas</u>	plementing countries. ette documentation.				
Filter by						
- remove filter -	•	✔ 2018				
- column -	• in	✔ Ghana, Tanzania, Chad				
APPLY						

Figure 8. Removing filters

Accessing the data as CSV or JSON

The SOE database allows you to download your query results in formats like CSV or JSON making it easy to use the data in other tools or for reporting.

Any table, view, or query result can be accessed directly from the SOE database interface either as JSON or CSV by:

1. Selecting an option from the **This data as** menu. By default, this will display the JSON or CSV representation of the table you are looking at. (**NOTE:** Just the current rows you are viewing on the page and NOT the entire table on the browser.)

This data as json, CSV (advanced) or download the CSV $% \left({{{\rm{CSV}}} \right)$

2. Using the Advanced export form that provides more control over the resulting file.



The advanced export options are:

- **download file** instead of displaying CSV in your browser, this forces your browser to download the CSV to your downloads directory.
- **expand labels** if your table has any foreign key references this option will cause the CSV to gain additional COLUMN_NAME_label columns with a label for each foreign key derived from the linked table. In this example the city_id column is accompanied by a city_id_label column.
- **stream all rows** by default CSV files only contain the first <u>max_returned_rows</u> records. This option will cause the SOE database to loop through every matching record and return them as a single CSV file.

TO LEARN MORE ABOUT CSV EXPORTS: You can visit <u>https://docs.datasette.io/en/latest/csv_export.html</u>

Queries are just URLs and vice versa

In the SOE database, a query can be as simple as typing a URL in your browser. Just like navigating to a website, you can navigate to a specific dataset and apply filters directly through the URL. You can then save the URLs, which you can reuse to retrieve/update your search results at a later date.

For example:

- 1. You can access the **eiti_database** and see its tables, views, and canned queries by going to: <u>https://soe-database.eiti.org/</u>
- 2. You can access the **declaration_companies** table inside of **eiti_database** by going to <u>eiti_database</u>: <u>access 32,909 rows</u>
- 3. You can access the **soe_companies_revenue_annual** view inside of the **eiti_database** by going to <u>eiti_database</u>: <u>Declared Revenue by Year: 162 rows</u>
- You can query the agencies_rev enue_from_soe_annual view for records from Norway during the year 2018 sorted by percentage_country_usd by going to eiti_database: Annual Revenues from SOEs: 178 rows
- You can apply a complex query getting the list of companies from the declarations_company table that pay to specific government entities from the declaration agencies table (see below)

```
SELECT
    a.government_entity,
    a.eiti_id_government,
    GROUP_CONCAT(DISTINCT c.company_name) AS company_names,
    GROUP_CONCAT(DISTINCT c.eiti_id_company) AS eiti_id_companies,
    a.country AS government_country
FROM
    declaration_companies c
JOIN
    declaration_agencies a ON c.eiti_id_government = a.eiti_id_government
GROUP BY
    a.government_entity,
    a.eiti_id_government,
    a.country;
```

Figure 9. A complex query applied to the database

by going to

<u>eiti_database: select rowid, company_name, eiti_id_company, project_name,</u> <u>eiti_id_project, company_commodities, [company_audited_financial</u> <u>statement_or_equivalent], company_public_listing_or_website, company_sector,</u> <u>company_id, company_type, revenue_value, original_company_name,</u> <u>opencorporates_id, company_relation, government_entity, eiti_id_government,</u> revenue_stream_name, levied_on_project, reported_by_project, reporting_currency, payment_in_kind, in_kind_volume, in_kind_unit, comments, country, iso_alpha3_code, eiti_id_declaration, iso_alpha2_code, year, start_date, end_date from companies order by rowid limit 26

Similarly, if you apply any filters, facets or queries on the SOE database user interface, you will notice that the page URL changes to reflect the filter, facet, or query that you've applied to the data.

Querying the data using SQL

There are several ways to query the data using SQL commands.

From the datasets page

You can query directly from the datasets page using the **Custom SQL query** dialog.



Figure 10. The Custom SQL query in the datasets page

To run your Custom SQL query, click Run SQL.

From the table and view pages

You can also apply a query on the database from any table or view page by clicking

View and edit SQL

This will open the Custom SQL query dialog

Custom SQL query returning 51 rows (hide)

1	<pre>select rowid, government_entity, eiti_id_government, sector, gfs_classification, revenue_stream_name, revenue_value, currency, country, iso_alpha3_code, eiti_id_declaration, year, start_date, end_date from declaration_agencies order by rowid limit 51</pre>
Fo	rmat SQL Run SQL
Cu	istom SQL query returning 158 rows (<u>hide</u>)
1	select Year, SOE, Country, Sector, Commodities, [Audited Financial Statement or Equivalent], [Public Listing or Website] from [SOE List] limit 161
F	ormat SQL RUN SQL

Figure 11. The Custom SQL query in the declaration_agencies table

Once the SQL commands are entered and applied, the data can be downloaded or used as an API for continued use.

IMPORTANT

When running custom SQL queries from any page (e.g. table, view, etc.) on the SOE database, you are not limited to just using that table or view. You can use any table or view on the database that you are allowed to access in your query.

Using the SOE database as an API

The SOE database can serve as an API allowing you to integrate data queries into your applications. This enables automated data retrieval and integration with other systems.

Accessing CSVs

By default, showing or exporting the data on the SOE database as a CSV will return a URL that can be used to access the CSV representation of the data. You can then use this URL to import the CSV, download the CSV, or access the CSV programmatically.

The following options can be used to customise the CSVs returned in the SOE database (from <u>Datasette's documentation</u>).

• ?_header=off

- this removes the first row of the CSV file specifying the headings (i.e. only the row data will be returned)
- ?_stream=on
 - stream all matching records, not just the first page of results.
- ?_dl=on
 - causes Datasette to return a content-disposition: attachment; filename="filename.csv" header.

Accessing JSONs

Similarly, the SOE database provides a JSON API for its associated databases. Anything you can do through the SOE database user interface can also be accessed as JSON via the API. This means that the database tables, views, as well as the results of queries and filters can easily be accessed as JSON by using the appropriate URL.

To access the API for a page, you can click the **This data as json** link or add **.json** extension to it.

For example, to access the JSON representation of the **rows in the** <u>eiti_database: Annual</u> <u>Revenues from SOEs: 178 rowsl</u> page, you can simply add .json at the end of the URL like so: <u>soe-database.eiti.org/eiti_database/Annual~20Revenues~20from~20SOEs.json</u>

This will open the JSON for the first 50 rows (default) in the view. You can change the number of rows exported by adding the ?_size= parameter in the URL.

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JSON of query or filter results

When accessing the JSON representation of queries or filter results, you will follow the same approach. Put **.json** after the page url (e.g. table or view) and put the query after that.

For example, in order to get the JSON representation of our filter in the **soe_companies_revenue_annual** view for the **year 2018** and countries **Ghana, Tanzania**, and **Chad**, we use the following URL:

<u>soe-database.eiti.org/eiti_database/Annual+Revenues+from+SOEs.json?Year__conta</u> <u>ins=2018</u>

Table or URL arguments

The SOE database has several URL options for fine-tuning how the CSV or JSON values are exported. For example:

- ?_size=1000 or ?_size=max
 - Sets a custom page size. This can be used to get a subset of the rows or all the rows being queried as long as the number of rows in the do not exceed the max_returned_rows setting (1,000,000 by default). Use max to get max_returned_rows.
- ?_sort=COLUMN
 - Sorts the results by the specified column.
- ?_col=COLUMN1&_col=COLUMN2
 - List specific columns to display. These will be shown along with any primary keys.
- ?_search=keywords
 - For SQLite tables that have been configured for <u>full-text search</u> executes a search with the provided keywords.
- ?_facet=column
 - Facet by column. Can be applied multiple times, see <u>Facets</u>. Only works on the default JSON output, not on any of the custom shapes.
- ?column__exact=value or ?_column=value
 - Returns rows where the specified column exactly matches the value.
- ?column__contains=value
 - Rows where the string column contains the specified value (column like "%value%" in SQL).

To learn more, you can refer to Datasette's documentation on its <u>JSON API</u> and <u>Pages and</u> <u>API endpoints</u>.

Other links and resources

- Website: <u>https://datasette.io/</u>
- Documentation: <u>https://docs.datasette.io/en/latest/</u>
- GitHub repository: <u>https://github.com/simonw/datasette</u>

Technical information

The EITI SOE database is a **Datasette** product. Datasette is an open source multi-tool for publishing and exploring data. Datasette is built using Python and leverages SQLite as its underlying database engine. It provides a simple yet powerful interface for interacting with data, making it accessible to users with varying levels of technical expertise.

The version used for the EITI SOE database instance is: 1.0a13 (latest

Version and changelog

Date	Person	Changelog
2024-05-08	CLi	Initial version prepared by Civic Literacy Initiative
2024-05-18	CLi	Added initial content
2024-07-29	EITI Data Team	Customised to EITI SOE database