Select Syntax

The SELECT syntax is essentially a JSON representation of the MySQL `SELECT` syntax. See the MySQL documentation for more detailed information.

SELECT

The SELECT syntax is contained in a single JSON object.

Property	Value	Notes
distinct	`boolean`, default `false`	If `true`, only returns unique values
columns	result columns	If empty, returns all columns available from source
from	source	Source being selected from
where	expression	Condition for rows, where expression returns `true`
group	`array` of expressions	Used to group rows for aggregation functions
having	expression	Like `where`, but can filter aggregation results
order	`array` of order terms	Used to sort the results
limit	expression	Limit the number of rows returned
offset	expression	Offset of the start of the rows

Result Columns

Specifies the column(s) to select.

All

Specifies all columns from the source. This is the same as the MySQL `SELECT *` syntax. This is the default if no value for the `columns` property is set.

Property	Value
`type`	`"all"`

Example

```
{ "type": "all" }
```

Array

Specifies column(s) as an array of result column objects. This is provided directly as a JSON array.

Example as JSON array:

```
[ ... ]
```

Result Column

Specifies an expression and optional alias. The alias can be referenced in the where clause with an alias expression.

Property	Value
`e`	expression
`alias`	`string` (optional)

Source

A source is a SQL table (or virtual table) from which a `SELECT` statement loads data.

Table Source

A source from any table.

Property	Value
`type`	`"table"`
`table`	`string` table
`alias`	`string` (optional)

The table syntax is the same as the table portion of the column expression syntax

```
table         = system-table-name | database-table
database-table  = database-path ['@' database-table-name]
```

May also be provided directly as a JSON string (without the `alias` property).

System Table Source

> Deprecated

A source from a system table.

Property	Value
`type`	`"table_system"` or `"ts"`
`table`	`string` table name
`alias`	`string` (optional)

Database Table Source

A source from a database table.

Property	Value
`type`	`"table_database"` or `"td"`
`database`	database specifier
`table`	`string` table name
`alias`	`string` (optional)

Join Source

A source derived from a SQL join of two sources.

Property	Value
`type`	`"join"`
`op`	`"join"`, `"left"`, `"left_outer"`, `"inner"`, or `"cross"`
`s1`	left join source
`s2`	right join source

Select Source

Source from the result of a select statement.

Property	Value

`type`	`"select"`
`select`	select

Order Term

Specifies an expression and optional order.

Property	Value
`e`	expression
`order`	`"asc"` or `"desc"` (optional, default `"asc"`

Revision #10
Created 9 June 2022 16:28:55 by Nick Dobson
Updated 15 January 2026 20:43:45 by Bradley Tse