**View parameters**

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A view represents a table of data in Looker, whether that table is native to your database or was created using Looker's [derived table](https://cloud.google.com/looker/docs/derived-tables) functionality. Views are typically declared in [view files](https://cloud.google.com/looker/docs/model-and-view-files#view_files), with one view per file.

Within each view are field definitions, each of which typically corresponds to a column in the underlying table or a calculation in Looker. These fields are described in the [field reference](https://cloud.google.com/looker/docs/reference/param-field), [dimension type reference](https://cloud.google.com/looker/docs/reference/param-field/dimension-type-reference), and [measure type reference](https://cloud.google.com/looker/docs/reference/param-field/measure-type-reference).

There are also a number of view-level settings, which are described on this page.

**Example usage**

*Hover over a parameter name to see a quick description; click it to jump to that page.  
When a parameter can be set to one of several specific options, the default value is listed first.*

## STRUCTURAL PARAMETERS  
[include](https://cloud.google.com/looker/docs/reference/param-model-include): "filename\_or\_pattern"  
## Possibly more include declarations  
  
[test](https://cloud.google.com/looker/docs/reference/param-model-test): test\_name {  
  [explore\_source](https://cloud.google.com/looker/docs/reference/param-model-test): explore\_name {  
    # Desired subparameters (described on [test](https://cloud.google.com/looker/docs/reference/param-model-test) page)  
  }  
  [assert](https://cloud.google.com/looker/docs/reference/param-model-test): assert\_statement {  
    [expression](https://cloud.google.com/looker/docs/reference/param-model-test): Looker expression ;;  
  }  
  # Possibly more assert declarations  
}  
## Possibly more test declarations  
  
[view](https://cloud.google.com/looker/docs/reference/param-view-view): view\_name {  
  [extension](https://cloud.google.com/looker/docs/reference/param-view-extension): required  
  [extends](https://cloud.google.com/looker/docs/reference/param-view-extends): [view\_name, view\_name, ...]  
  ([dimension](https://cloud.google.com/looker/docs/reference/param-field-dimension) | [dimension\_group](https://cloud.google.com/looker/docs/reference/param-field-dimension-group) | [measure](https://cloud.google.com/looker/docs/reference/param-field-measure) | [filter](https://cloud.google.com/looker/docs/reference/param-field-filter)): field\_name {  
    # Desired field parameters (described on [Field Parameters](https://cloud.google.com/looker/docs/reference/param-field) page)  
  }  
  # Possibly more field declarations  
  
  [set](https://cloud.google.com/looker/docs/reference/param-view-set): set\_name {  
    [fields:](https://cloud.google.com/looker/docs/reference/param-view-set) [field\_or\_set, field\_or\_set, ...]  
  }  
  # Possibly more set declarations  
  
  [drill\_fields](https://cloud.google.com/looker/docs/reference/param-view-drill-fields): [field\_or\_set, field\_or\_set, ...]  
  
  # DISPLAY PARAMETERS  
  [label](https://cloud.google.com/looker/docs/reference/param-view-label): "desired label"  
  [fields\_hidden\_by\_default](https://cloud.google.com/looker/docs/reference/param-view-fields-hidden-by-default): yes | no  
  
  # FILTER PARAMETERS  
  [suggestions](https://cloud.google.com/looker/docs/reference/param-view-suggestions): yes | no  
  
  # QUERY PARAMETERS  
  [required\_access\_grants](https://cloud.google.com/looker/docs/reference/param-view-required-access-grants): [access\_grant\_name, access\_grant\_name, ...]  
  [sql\_table\_name](https://cloud.google.com/looker/docs/reference/param-view-sql-table-name): table\_name ;;  
  
  # DERIVED TABLE PARAMETERS  
  [derived\_table](https://cloud.google.com/looker/docs/reference/param-view-derived-table): {  
    [cluster\_keys](https://cloud.google.com/looker/docs/reference/param-view-cluster-keys): ["column\_name", "column\_name", ...]  
    [create\_process](https://cloud.google.com/looker/docs/reference/param-view-create-process): {  
      [sql\_step](https://cloud.google.com/looker/docs/reference/param-view-create-process): SQL query ;;  
    }  
    [datagroup\_trigger](https://cloud.google.com/looker/docs/reference/param-view-datagroup-trigger): datagroup\_name  
    [distribution](https://cloud.google.com/looker/docs/reference/param-view-distribution): "column\_name"  
    [distribution\_style](https://cloud.google.com/looker/docs/reference/param-view-distribution-style): all | even  
    [explore\_source](https://cloud.google.com/looker/docs/reference/param-view-explore-source): explore\_name {  
      # Desired subparameters (described on [explore\_source](https://cloud.google.com/looker/docs/reference/param-view-explore-source) page)  
    }  
    [increment\_key](https://cloud.google.com/looker/docs/reference/param-view-increment-key): "column\_name"  
    [increment\_offset](https://cloud.google.com/looker/docs/reference/param-view-increment-offset): N  
    [indexes](https://cloud.google.com/looker/docs/reference/param-view-indexes): ["column\_name", "column\_name", ...]  
    [interval\_trigger](https://cloud.google.com/looker/docs/reference/param-view-interval-trigger): "N (seconds | minutes | hours)"  
    [materialized\_view](https://cloud.google.com/looker/docs/reference/param-view-materialized-view): yes | no  
    [partition\_keys](https://cloud.google.com/looker/docs/reference/param-view-partition-keys): ["column\_name", "column\_name", ...]  
    [persist\_for](https://cloud.google.com/looker/docs/reference/param-view-persist-for-for-derived-table): "N (seconds | minutes | hours)"  
    [publish\_as\_db\_view](https://cloud.google.com/looker/docs/reference/param-view-publish-as-db-view): yes | no  
    [sortkeys](https://cloud.google.com/looker/docs/reference/param-view-sortkeys): ["column\_name", "column\_name", ...]  
    [sql](https://cloud.google.com/looker/docs/reference/param-view-sql-for-derived-table): SQL query ;;  
    [sql\_create](https://cloud.google.com/looker/docs/reference/param-view-sql-create): {  
      SQL query ;;  
    }  
    [sql\_trigger\_value](https://cloud.google.com/looker/docs/reference/param-view-sql-trigger-value): SQL query ;;  
    [table\_compression](https://cloud.google.com/looker/docs/reference/param-view-table-compression): GZIP | SNAPPY  
    [table\_format](https://cloud.google.com/looker/docs/reference/param-view-table-format): PARQUET | ORC | AVRO | JSON | TEXTFILE  
  }  
}  
  
## REFINEMENT PARAMETERS  
view: [+view\_name](https://cloud.google.com/looker/docs/lookml-refinements) {  
  [final](https://cloud.google.com/looker/docs/lookml-refinements#final): yes  
}

**Parameter definitions**

|  |  |
| --- | --- |
| **Parameter Name** | **Description** |
| Structural Parameters | |
| [drill\_fields (for view)](https://cloud.google.com/looker/docs/reference/param-view-drill-fields) | Specifies the default list of fields shown when drilling into measures defined in the view |
| [extends (for view)](https://cloud.google.com/looker/docs/reference/param-view-extends) | Specifies view(s) that will be extended by this view |
| [extension (for view)](https://cloud.google.com/looker/docs/reference/param-view-extension) | Specifies that the view requires extension and cannot itself be exposed to users |
| [include](https://cloud.google.com/looker/docs/reference/param-model-include) | Adds files to a view |
| [test](https://cloud.google.com/looker/docs/reference/param-model-test) | Creates a data test to verify your model's logic. The project settings include an option to [require data tests](https://cloud.google.com/looker/docs/git-options#require-data-tests). When this is enabled for a project, developers on the project must run data tests before deploying their changes to production. This parameter has explore\_source and assert subparameters. |
| [set](https://cloud.google.com/looker/docs/reference/param-view-set) | Defines a set of dimensions and measures to be used in other parameters |
| [view](https://cloud.google.com/looker/docs/reference/param-view-view) | Creates a view |
| Display Parameters | |
| [label (for view)](https://cloud.google.com/looker/docs/reference/param-view-label) | Specifies how the view name will appear in the field picker |
| [fields\_hidden\_by\_default](https://cloud.google.com/looker/docs/reference/param-view-fields-hidden-by-default) | ADDED 21.12 When set to yes, hides all fields in the view by default. Use the [hidden: no](https://cloud.google.com/looker/docs/reference/param-field-hidden) parameter on a field to display the field. |
| Filter Parameters | |
| [suggestions (for view)](https://cloud.google.com/looker/docs/reference/param-view-suggestions) | Enables or disables suggestions for all dimensions on this view |
| Query Parameters | |
| [required\_access\_grants (for view)](https://cloud.google.com/looker/docs/reference/param-view-required-access-grants) | Limits access to the view to only users whose user attribute values match the access grants |
| [sql\_table\_name (for view)](https://cloud.google.com/looker/docs/reference/param-view-sql-table-name) | Changes the SQL table on which a view is based |
| Derived Table Parameters | |
| [cluster\_keys](https://cloud.google.com/looker/docs/reference/param-view-cluster-keys) | Specifies that a PDT be clustered by one or more fields in BigQuery Support added for cluster\_keys on Snowflake |
| [create\_process](https://cloud.google.com/looker/docs/reference/param-view-create-process) | Specifies an ordered sequence of steps to create a PDT on a database dialect that requires custom DDL commands. This parameter has the subparameter sql\_step. |
| [datagroup\_trigger](https://cloud.google.com/looker/docs/reference/param-view-datagroup-trigger) | Specifies the datagroup to use for the PDT rebuilding policy |
| [derived\_table](https://cloud.google.com/looker/docs/reference/param-view-derived-table) | Bases a view on a derived table |
| [distribution](https://cloud.google.com/looker/docs/reference/param-view-distribution) | Sets the distribution key of a PDT that is built in Redshift or Aster |
| [distribution\_style](https://cloud.google.com/looker/docs/reference/param-view-distribution-style) | Sets the distribution style of a PDT that is built in Redshift |
| [explore\_source](https://cloud.google.com/looker/docs/reference/param-view-explore-source) | Defines a [native derived table](https://cloud.google.com/looker/docs/creating-ndts) based on an Explore |
| [increment\_key](https://cloud.google.com/looker/docs/reference/param-view-increment-key) | ADDED 21.4 Makes the derived table into an [incremental PDT](https://cloud.google.com/looker/docs/incremental-pdts). The increment\_key specifies the time increment for which fresh data should be queried and appended to the PDT. |
| [increment\_offset](https://cloud.google.com/looker/docs/reference/param-view-increment-offset) | ADDED 21.4 Used in conjunction with the increment\_key parameter for [incremental PDTs.](https://cloud.google.com/looker/docs/incremental-pdts) The increment\_offset specifies the number of previous time periods (at the increment key's granularity) that are rebuilt to account for late arriving data. |
| [interval\_trigger](https://cloud.google.com/looker/docs/reference/param-view-interval-trigger) | ADDED 21.20 The interval\_trigger specifies a rebuild schedule for a persistent derived table, in the format "N (seconds | minutes | hours)" |
| [materialized\_view](https://cloud.google.com/looker/docs/reference/param-view-materialized-view) | ADDED 21.10 The statement materialized\_view: yes creates a materialized view on your database for a derived table. |
| [indexes](https://cloud.google.com/looker/docs/reference/param-view-indexes) | Sets the indexes of a PDT built in a traditional database (for example, MySQL, Postgres) or an interleaved sort key in Redshift |
| [partition\_keys](https://cloud.google.com/looker/docs/reference/param-view-partition-keys) | Specifies that a PDT be partitioned by one or more fields in Presto, or by a single date/time field in BigQuery |
| [persist\_for (for derived\_table)](https://cloud.google.com/looker/docs/reference/param-view-persist-for-for-derived-table) | Sets the maximum age of a PDT before it is regenerated |
| [publish\_as\_db\_view](https://cloud.google.com/looker/docs/reference/param-view-publish-as-db-view) | The statement publish\_as\_db\_view: yes creates a stable database view for the PDT to enable querying the table outside of Looker |
| [sortkeys](https://cloud.google.com/looker/docs/reference/param-view-sortkeys) | Sets the sort keys of a PDT that is built in Redshift |
| [sql (for derived\_table)](https://cloud.google.com/looker/docs/reference/param-view-sql-for-derived-table) | Declares the SQL query for a derived table |
| [sql\_create](https://cloud.google.com/looker/docs/reference/param-view-sql-create) | Defines a SQL CREATE statement to create a PDT on a database dialect that requires custom DDL commands |
| [sql\_trigger\_value](https://cloud.google.com/looker/docs/reference/param-view-sql-trigger-value) | Specifies the condition that causes a PDT to be regenerated |
| [table\_compression](https://cloud.google.com/looker/docs/reference/param-view-table-compression) | Specifies the table compression to use for a PDT in Amazon Athena |
| [table\_format](https://cloud.google.com/looker/docs/reference/param-view-table-format) | Specifies the table format to use for a PDT in Amazon Athena |
| Refinement Parameters | |
| [view: +view\_name](https://cloud.google.com/looker/docs/lookml-refinements) | Adds a plus sign (+) in front of an existing view name to add a refinement to the existing view. See the [LookML refinements](https://cloud.google.com/looker/docs/lookml-refinements) documentation page for more information and use cases. |
| [final](https://cloud.google.com/looker/docs/lookml-refinements#final) | Indicates that the current refinement is the final refinement allowed for the view. See the [LookML refinements](https://cloud.google.com/looker/docs/lookml-refinements#final) documentation page for more information and use cases. |
| Parameters to Avoid | |
| [distkey](https://cloud.google.com/looker/docs/reference/param-view-distkey) | REMOVED 3.26 Replaced by [distribution](https://cloud.google.com/looker/docs/reference/param-view-distribution) |
| [view\_label](https://cloud.google.com/looker/docs/reference/param-view-view-label) | AVOID 4.4 Replaced by [label](https://cloud.google.com/looker/docs/reference/param-view-label) |