**Model parameters**

bookmark\_border

[Model files](https://cloud.google.com/looker/docs/model-and-view-files#model_files) define Explores and their relationships to other views.

In Looker, a model comprises a combination of related Explores and dashboards. Unlike other LookML elements, a model is not declared with a specific "model" parameter. Instead, any file placed in the **Models** section of the Looker IDE (also known as the **Develop** page) defines a model. The model name is taken from the filename and must be unique across your instance, even within different projects.

A model file typically contains any [explore](https://cloud.google.com/looker/docs/reference/param-explore) declarations, along with a number of model-level settings.

This page links to the model-level LookML parameters. They are typically written at the top of the model file and should not be nested within other parameters.

**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  
[explore](https://cloud.google.com/looker/docs/reference/param-explore-explore): explore\_name {  
  # Desired explore parameters (described on [Explore Parameters](https://cloud.google.com/looker/docs/reference/param-explore) page)  
}  
## Possibly more explore declarations  
  
[include](https://cloud.google.com/looker/docs/reference/param-model-include): "filename\_or\_pattern"  
## Possibly more include declarations  
  
[access\_grant](https://cloud.google.com/looker/docs/reference/param-model-access-grant): access\_grant\_name {  
  [user\_attribute](https://cloud.google.com/looker/docs/reference/param-model-access-grant): user\_attribute\_name  
  [allowed\_values](https://cloud.google.com/looker/docs/reference/param-model-access-grant): ["value\_1", "value\_2", ...]  
}  
## Possibly more access\_grant 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  
  
## DISPLAY PARAMETERS  
[label](https://cloud.google.com/looker/docs/reference/param-model-label): "desired label"  
  
## FILTER PARAMETERS  
[case\_sensitive](https://cloud.google.com/looker/docs/reference/param-model-case-sensitive): yes | no  
  
## QUERY PARAMETERS  
[connection](https://cloud.google.com/looker/docs/reference/param-model-connection): "connection\_name"  
[datagroup](https://cloud.google.com/looker/docs/reference/param-model-datagroup): datagroup\_name {  
  [label](https://cloud.google.com/looker/docs/reference/param-model-datagroup): "desired label"  
  [description](https://cloud.google.com/looker/docs/reference/param-model-datagroup): "desired description"  
  [max\_cache\_age](https://cloud.google.com/looker/docs/reference/param-model-datagroup" \l "max_cache_age): "N (minutes | hours | days)"  
  [sql\_trigger](https://cloud.google.com/looker/docs/reference/param-model-datagroup" \l "sql_trigger): SQL query ;;  
}  
## Possibly more datagroup declarations  
[fiscal\_month\_offset](https://cloud.google.com/looker/docs/reference/param-model-fiscal-month-offset): N  
[persist\_for](https://cloud.google.com/looker/docs/reference/param-model-persist-for): "N (seconds | minutes | hours)"  
[persist\_with](https://cloud.google.com/looker/docs/reference/param-model-persist-with): datagroup\_name  
[week\_start\_day](https://cloud.google.com/looker/docs/reference/param-model-week-start-day): monday | tuesday | wednesday | thursday | friday | saturday | sunday  
  
## VISUALIZATION AND FORMATTING PARAMETERS  
[map\_layer](https://cloud.google.com/looker/docs/reference/param-model-map-layer): map\_name {

|  |  |
| --- | --- |
| **Parameter Name** | **Description** |
| Structural Parameters | |
| [access\_grant](https://cloud.google.com/looker/docs/reference/param-model-access-grant) | Creates an access grant that limits access of LookML structures to only those users who are assigned an approved [user attribute](https://cloud.google.com/looker/docs/admin-panel-users-user-attributes) value. This parameter has the user\_attribute and allowed\_values subparameters. |
| [explore](https://cloud.google.com/looker/docs/reference/param-explore-explore) | Exposes a view in the Explore menu. For more information about Explores and their parameters, see the [Explore Parameter Reference](https://cloud.google.com/looker/docs/reference/param-explore) page. |
| [include](https://cloud.google.com/looker/docs/reference/param-model-include) | Adds files to a model |
| [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 the explore\_source and assert subparameters. |
| Display Parameters | |
| [label (for model)](https://cloud.google.com/looker/docs/reference/param-model-label) | Changes the way a model appears in the Explore menu |
| Filter Parameters | |
| [case\_sensitive (for model)](https://cloud.google.com/looker/docs/reference/param-model-case-sensitive) | Specifies whether filters are case-sensitive for a model |
| Query Parameters | |
| [connection](https://cloud.google.com/looker/docs/reference/param-model-connection) | Changes the database connection for a model |
| [datagroup](https://cloud.google.com/looker/docs/reference/param-model-datagroup) | Creates a datagroup-caching policy for a model. This parameter has the label, description, max\_cache\_age, and sql\_trigger subparameters. |
| [fiscal\_month\_offset](https://cloud.google.com/looker/docs/reference/param-model-fiscal-month-offset) | Specifies the month your fiscal year begins (if it differs from the calendar year) |
| [persist\_for (for model)](https://cloud.google.com/looker/docs/reference/param-model-persist-for) | Changes the cache settings for a model |
| [persist\_with (for model)](https://cloud.google.com/looker/docs/reference/param-model-persist-with) | Specifies the datagroup to use for the model's caching policy |
| [week\_start\_day](https://cloud.google.com/looker/docs/reference/param-model-week-start-day) | Specifies the day of the week on which week-related dimensions should start |
| Visualization and Formatting Parameters | |
| [map\_layer (for model)](https://cloud.google.com/looker/docs/reference/param-model-map-layer) | Creates custom maps to be used with [map\_layer\_name](https://cloud.google.com/looker/docs/reference/param-field-map-layer-name) |
| [named\_value\_format](https://cloud.google.com/looker/docs/reference/param-model-named-value-format) | Creates a custom value format to be used with [value\_format\_name](https://cloud.google.com/looker/docs/reference/param-field-value-format-name). This parameter has the value\_format and strict\_value\_format subparameters. |
| Parameters to Avoid | |
| [scoping](https://cloud.google.com/looker/docs/reference/param-model-scoping) | REMOVED 3.52 No longer required |
| [template](https://cloud.google.com/looker/docs/reference/param-model-template) | REMOVED 3.30 No longer required |

[extents\_json\_url](https://cloud.google.com/looker/docs/reference/param-model-map-layer): "URL to JSON extents file"  
  [feature\_key](https://cloud.google.com/looker/docs/reference/param-model-map-layer): "Name of TopoJSON object"  
  [file](https://cloud.google.com/looker/docs/reference/param-model-map-layer): "TopoJSON or GeoJSON filename" # or use the url subparameter  
  [format](https://cloud.google.com/looker/docs/reference/param-model-map-layer): topojson | vector\_tile\_region  
  [label](https://cloud.google.com/looker/docs/reference/param-model-map-layer): "desired label"  
  [max\_zoom\_level](https://cloud.google.com/looker/docs/reference/param-model-map-layer): number indicating max zoom  
  [min\_zoom\_level](https://cloud.google.com/looker/docs/reference/param-model-map-layer): number indicating min zoom  
  [projection](https://cloud.google.com/looker/docs/reference/param-model-map-layer): Preferred geographic projection  
  [property\_key](https://cloud.google.com/looker/docs/reference/param-model-map-layer): "TopoJSON property"  
  [property\_label\_key](https://cloud.google.com/looker/docs/reference/param-model-map-layer): "Label for TopoJSON property"  
  [url](https://cloud.google.com/looker/docs/reference/param-model-map-layer): "URL that contains map file" # or use the file subparameter  
}  
## Possibly more map layer declarations  
  
[named\_value\_format](https://cloud.google.com/looker/docs/reference/param-model-named-value-format): desired\_name {  
  [value\_format](https://cloud.google.com/looker/docs/reference/param-model-named-value-format): "excel formatting string"  
  [strict\_value\_format](https://cloud.google.com/looker/docs/reference/param-model-named-value-format): yes | no  
}  
## Possibly more named value format declarations

**Parameter definitions**