

# Settings For Specifying Whether And How To Use Joins

These settings enable the AtScale engine to define aggregates that use joins and affect how it determines whether a join is appropriate for a given aggregate.

To access these settings:



**Restriction:** Your user ID must be a super user.

1. Choose **Settings** from the main navigation, select **Engine**. Use your browser Find to search for each setting.

## Settings

### AGGREGATES.CREATE.JOINS.ENABLED

Set to **True** to allow the AtScale engine to use joins when defining aggregates.

This setting must be set to **True** for the following three settings to have an effect.

The default value of this setting is **True**.

### AGGREGATES.CREATE.JOINS.COMPRESSION

Specify the minimum compression ratio for any proposed join. This ratio is calculated as the cardinality of the join key to the cardinality of the grouped dimension values (i.e.  $\#(\text{Join Key}) / \#(\text{Dim Table grouped by Dim Value})$ ). Joins for which the compression ratio is lower than this minimum will not be used.

The default is 100.

### AGGREGATES.CREATE.JOINS.MAXIMUMDEPTH

Specify the maximum number of dimensions that can be traversed in a join path.

The default is 3.

### AGGREGATES.CREATE.JOINS.MAXMIMUMKEYCARDINALITY

Specify the maximum cardinality that the AtScale engine will allow in join keys when the engine is determining whether to use a join in the definition of an aggregate. Higher cardinalities will cause the engine not to use a join.

As of AtScale 20201.0, the default value is 10,000,000.