

Hvrstats

Since v5.3.1/25

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Name

hvrstats - Gather or output statistics information.

Statistics generation for HVR version 5.3.1/24 and older, see [Hvrstatistics](#).

Synopsis

hvrstats [-h *class*] [-u *user*] -**C** *lett* *hubdb*

hvrstats [-h *class*] [-u *user*] -**f** *logf* [-**f** *logf*]... [-**T** *gran*] *hubdb*

hvrstats [-h *class*] [-u *user*] -**g** *N* [-**T** *gran*] [-**G** *typ*] *hubdb*

hvrstats [-h *class*] [-u *user*] -**o** *fname* [-*outopts*] *hubdb*

hvrstats [-h *class*] [-u *user*] -**p** *pol* *hubdb*

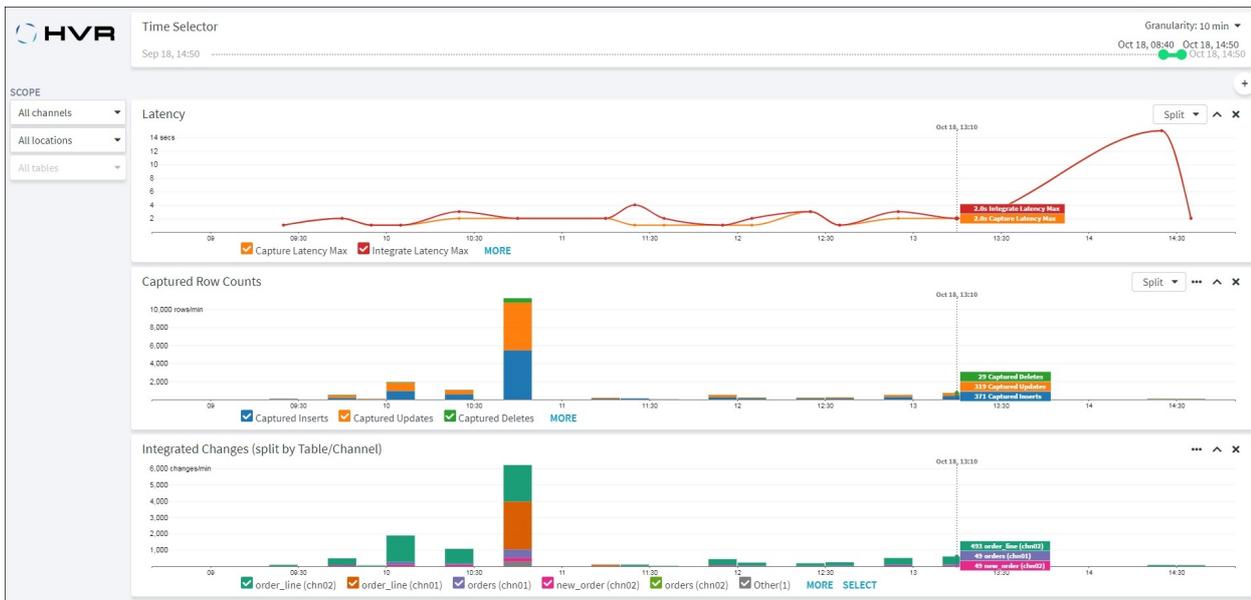
Description

Command **hvrstats** gathers or outputs statistics information.

The argument *hubdb* specifies the connection to the hub database. For more information about supported hub databases and the syntax for using this argument, see [Calling HVR on the Command Line](#).

This command can be invoked in five distinct ways:

1. Option -**C** creates database objects.
2. Option -**f** gathers statistics information from a static log file.
3. Option -**g** gathers live information into table **hvr_stats**.
4. Option -**o** outputs statistics information from table **hvr_stats** to a file.
5. Option -**p** purges old data from table **hvr_stats**.



Regular Options

| Parameter | Description |
|--------------------------|--|
| -C <i>letters</i> | <p>Create database objects for hvrstats. Value <i>letters</i> can be one or more of the following:</p> <ul style="list-style-type: none"> t : Create tables hvr_stats and hvr_stats_staging. j : Create hvrstats job in scheduler. Once created, the job can be started and suspended using commands Hvrstart and Hvrsuspend respectively. <p>This option cannot be used with -g -f -o or -p.</p> |
| -f <i>logf</i> | <p>Gather statistics measurements from HVR log file <i>logf</i>. This option can be supplied multiple times. Examples of use are to catch-up with the current log file (\$HVR_CONFIG/IG/log/hubdb.out) or to consume archived log files (in \$HVR_CONFIG/logarchive). This option does not change the statistics offset state file.</p> <p>This option cannot be used with -C -g -o or -p.</p> |
| -g <i>bool</i> | <p>Gather information from runtime; normal run-time hvrstats processing. Value <i>bool</i> should either be 0 (run continuously in a loop until terminated) or 1 (perform just one [full] cycle, then stop).</p> <p>This option cannot be used with -C -f -o or -p.</p> |
| -G <i>letters</i> | <p>Type of information to gather.</p> <p>By default all types of information is gathered (but not at same frequency).</p> <p>Value <i>_letters_</i> can one of the following:</p> <ul style="list-style-type: none"> j : Job information, including latency (from \$HVR_CONFIG/router) and log files sizes (from \$HVR_CONFIG/log). s : Statistics metrics from live HVR log file's contents. <p>This option requires option -g (gather). If this option is not supplied then all types of information is gathered (-Gjs).</p> |

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| -h <i>class</i> | Location <i>class</i> of the hub database. Valid values for <i>class</i> are db2 , db2i , ingres , mysql , oracle , postgresql , sqlserver , or teradata . For more information, see Calling HVR on the Command Line . |
| -o <i>fname</i> | Writes statistics information (fetched from table hvr_stats) into file <i>fname</i> . The default file format is JSON, for other file formats see output option -V . To filter the output written into file <i>fname</i> , you can use the output options along with -o . |
| -p <i>policy</i> | Purge old records immediately from the catalog table hvr_stats . Value <i>policy</i> can be one of the following: <ul style="list-style-type: none"> • SMALL : Per-table measurements at 1min/10 min/1hour/1day granularity are purged after 1hour/4hours/1day/7days respectively. Rows for all tables (table=*) at 1min/10 min/1hour/1day granularity are purged after 4hours/1day/7days /30days respectively. • MEDIUM (default): Per-table measurements at 1min/10 min/1hour/1day granularity are purged after 4hours/1day/7days/30days respectively. Rows for all tables (table=*) at 1min/10min/1hour/1day granularity are purged after 1day /7days/30days/never respectively. • LARGE : Per-table measurements at 1min/10min/1hour/1day granularity are purged after 1day/7days/30days/never respectively. Rows for all tables (table=*) at 1min/10min/1hour/1day granularity are purged after 7days/30days/never/never respectively. Values NONE and UNBOUNDED are not allowed here but are valid for action Scheduling /StatsHistory . This option cannot be used with -C -g -f or -o . |
| -T <i>gran</i> | Time granularity of data to gather or to output. Value <i>gran</i> must be only one of the following: <ul style="list-style-type: none"> • m : Minute granularity • t : Ten (10) minutes granularity • h : Hour granularity • d : Day granularity • c : Current granularity. This letter is allowed with option -o(view output), not option -g(gather from runtime). This option can only be used with -f (gather from file), -g (gather from runtime) or -o (view output). When gathering (option -g) if this option is omitted the default is m (minute granularity). Also, when gathering (but not when showing) if a small granularity is supplied then large granularities (e.g. m > t > h > d) will also be calculated. For example for option -T t (for 10 minutes) is supplied then aggregate values are also calculated for hour and day granularity. With option -o (view output), multiple letters can be supplied and the default is to return all time granularities (-T mthd). |
| -u <i>usef[/pwd]</i> | Username for hub database. |

Output Options

The following options (*-outopts*) can only be used with option **-o**.

For list of all statistics metrics, see [Metrics for Statistics](#).

| Parameter | Description |
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|-----------------------------|--|
| -b <i>begin_time</i> | Only write statistics information since <i>begin_time</i> . Value <i>begin_time</i> must have form <i>YYYY-MM-DD HH:MM:SS</i> , <i>YYYY-MM-DDT HH:MM:SS+TZD</i> or <i>YYYY-MM-DDT HH:MM:SSZ</i> . |
| -c <i>chn</i> | Only write statistics information for channel <i>chn</i> . This option can be supplied multiple times. |
| -e <i>end_time</i> | Only write statistics information upto <i>end_time</i> . Value <i>end_time</i> must have form <i>YYYY-MM-DD HH:MM:SS</i> , <i>YYYY-MM-DDT HH:MM:SS+TZD</i> or <i>YYYY-MM-DDT HH:MM:SSZ</i> . |
| -l <i>loc</i> | Only write statistics information for location <i>loc</i> . This option can be supplied multiple times. |
| -m <i>mchoice</i> | Only write statistics information for specific metrics. Values <i>mchoice</i> can be either a metric name (e.g. Integrated Updates), a group of metrics (e.g. Latency) or a named label of metrics (<code>__kpi_lines</code>). This option can be supplied multiple times; if it is not supplied then all metrics are displayed. |
| -s <i>scope</i> | <p>Only write statistics information for metric with specific <i>scope</i>. A scope is identified by three letters for channel, location and table. The first letter of <i>scope</i> is either c if the value is for a specific channel or * if it is associated (an aggregate) for all channels. The second is either l if the value is for a specific location or * if it is associated (an aggregate) for all locations. The third is either t if the value is for a specific table or * if it is associated (an aggregate) for all tables.</p> <p>Value <i>scope</i> must be one of the following:</p> <ul style="list-style-type: none"> • clt : Specific (named) channel, location and table. • cl* : Specific channel and location, but for all tables (e.g. <code>table=*</code>). • c*t : Specific channel and table, but for all locations. • *l* : Specific locations, but for all channels and tables. • c** : Specific channel, but for all locations and tables. • *** : General values, which apply to all channels, locations and tables. <p>If this option is not supplied then measurements for all scope are shown. This option can be supplied multiple times.</p> <pre> cl* *l* clt *** c*t c** </pre> <p>Note that two combinations (*lt and **t) are not supported.</p> |
| -t <i>tbl</i> | Only write statistics information for table <i>tbl</i> . This option can be supplied multiple times. |
| -V <i>fmt</i> | <p>Format of the output file <i>fname</i>. Value <i>fmt</i> can be one of the following:</p> <ul style="list-style-type: none"> • json (default). This format is available only in CLI. • csv • xlsx Since v5.6.0/1 |
| -w <i>time</i> | Only write statistics information that was updated after <i>time</i> . Value <i>time</i> must have form <i>YYYY-MM-DD HH:MM:SS</i> , <i>YYYY-MM-DDT HH:MM:SS+TZD</i> or <i>YYYY-MM-DDT HH:MM:SSZ</i> . |

Example

This command will create the **hvrstats** catalog tables (if necessary), gather all data from a log file (**-f <hvr_log>**), select data for time granularity '10 minutes' (**-Tt**) into a file (**-o <ofile>**) and purge (**-p**) old rows according to the **SMALL** purge policy. Note that these actions will be performed in that exact order.

```
hvrstats -Ct -f <hvr_log> -o <ofile> -Tt -pSMALL <hub_db>
```

Files

| | |
|---|------------------------|
| ▼  HVR_CONFIG | |
| ▼  files | |
|  hvrstatistics-stats- <i>hubdb</i> .offset | Statistics state file. |
|  hvr_stats_staging_ <i>hubdb</i> .xml | |

See Also

- [Statistics](#)