Quest™

Foglight™ for SQL Server 5.7.5.41

SQL PI Schema Reference Guide

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Foglight™ for SQL Server SQL PI Schema Reference Guide
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SQL PI Repository Schema

Welcome to the *Foglight for SQL Server SQL PI Schema Reference Guide*.

This guide provides conceptual information and instructions on how to query the SQL PI repository.

For more information, see the following topics:

About the SQL PI repository

SQL PI allows you see enterprise-level performance at a glance. You can determine the root-cause of performance deviations and identify changes to your SQL Server environment quickly and easily. The repository allows you to save historical data for up to three years, and allows you to see the changes made over the time.

Connecting to the SQL PI repository

SQL PI repository is based on a PostgreSQL® database (http://www.postgresql.org). Any Postgres database administration and development utility, such as *pgAdmin* (http://www.pgadmin.org), is sufficient to connect to the repository. In order to connect to the repository, you need the following information:

- Repository host— determined during the initial installation, could be on the Foglight Management Server host.
- Repository port— default port **5029**
- Repository database — **spimssql**
- Connection user and password — **postgres/postgres**

Your agent repository configuration can be found under the menu **Administration > Agents > Agent Status >** *(agent_name)*> **Edit Properties.** In the list of properties, search for the SQL PI properties:

- SQL PI Repository host name
- SQL PI Repository port
- SQL PI Repository database

The default user and password is **postgres**.

Understanding Time Ranges and Data Intervals

The time range in SQL PI history mode is built on a pyramidal model of granularity, such that more recent data is available in smaller discrete time units (that is, higher granularity) than data from the more distant past. For example, in the following default configuration:

Table 1. Time Ranges and Data Intervals

Data Granularity	Range (Kept for)	Table Name Suffix
1 minute	6 hours	1m
15 minutes	3 days	15m
1 hour	2 weeks	1h
6 hours	30 days	6h
1 day	90 days	1d
1 week	2 years	1w

The Repository data content

General

The Repository data allows you to see enterprise-level performance at a glance. You can determine the root cause of performance deviations, and identify changes to your SQL Server® environment quickly and easily.

There are five types of data tables:

1. **Stat**. Snapshot of performance statistics for a specific timeframe.
2. **Wait event**. Snapshot of the wait event activity for a specific timeframe.
3. **Locks**. Locks in the environment for a specific timeframe.
4. **Object I/O**. Objects I/O activity in the environment for a specific timeframe.
5. **File I/O**. Files I/O activity in the environment for a specific timeframe.

There are three levels of aggregation:

1. **Instance**. Summary for the instance.
2. **Unique**. All connection details (dimensions) as identifier for activity.
3. **Session**. All session details (dimensions + Session IDs) as identifier for activity.

There are six levels of granularity and age. For details, see Understanding Time Ranges and Data Intervals.

For each type, level, and granularity described in Understanding Time Ranges and Data Intervals there is a corresponding table in the repository. The naming convention for each table is: ***pass_{level}_{type}_fact_{granularity}***.

Purging of data of the first level of granularity — ***1m*** — is performed by deleting the whole table and not rows in the table. Therefore, the table of the previous age is also kept. For these tables we add a timestamp of the creation time at the end of their name.

In addition, there is another table of samples that has its own retention of three days: ***pass_request_stat_fact_1m***.

Additional types of data, which are stored in different tables, include: ***batch***, ***syntax***, ***plan***, ***object***, and ***file***. For each of the these tables there are two granularities: ***1m*** and ***permanent***. Besides file type, there is a table for each

type and granularity. The naming convention for each table is: ***pass_{type}_dim_{granularity}***. Management of the ***1m*** granularity is the same as described in Understanding Time Ranges and Data Intervals.

Texts collection

SQL Statements text, Batch text, and Plan text is captured separately from other types of information and is stored separately.

This is done to ensure that the same text is not saved multiple times, and also to simplify the collection of this data which is expensive to gather and save.

Retention period for these texts is not handled by the time pyramid described in Understanding Time Ranges and Data Intervals. They are saved for as long as the dimensions referring to them are kept in the repository.

Data is held in tables called ***pass_{type}_dim*** where ***{type}*** is either syntax (SQL statements), Batch, or Plan.

Each text is saved just once based on its key. However, for Plans, there are times that different plan handles may actually hold the same plan text xml. For that reason, Foglight computes a ***plan_text_hash*** for each plan to indicate those plans that differ only in their plan handle.

SQL Server Dimensions

The SQL Server dimensions include:

- SQL Statements — The executed SQL commands
- TSQL Batches TSQL Batch — The set of TSQL commands that are sent to execution together, usually corresponding to a single business transaction. TSQL Batch usually end with a GO command. Includes:
  - Stored Procedure
  - Functions
  - Triggers
- Programs — Name of the programs connecting to SQL Server and executing the SQL statements
- Users — SQL Server login names used by the program to connect to the SQL Server instance.
- Command Types — Executed SQL command type (for example INSERT, SELECT, and so on).
- Databases — The database context in which the session read and wrote data. A session may switch to numerous databases within its lifetime.
- Client Machines — The machines on which the client executable (connected to SQL Server) is running.
- Context Info — Optional trace information that a session can create using the SET CONTEXT_INFO command.
- Sessions — Sessions details

Collected Metrics

There are 3 types of metrics collected

1. Statistics - Performance and environmental data that describes the relational SQL Server database performance such as:
   a. num_executions — The number of execution times of the SQL.
   b. row_count — The average amount of rows returned by the query
   c. cpu_time — The CPU time consumed by the SQL.

d elapsed_time — The total time for the SQL to be received, executed and the results sent back.

2 Wait events — Reveals wait-event data down to the statement level, speeding resolution of resource-related performance problems. All the waits that are collected described in the table pass_wait_event_dim.

3 Wait categories and sub categories — Allows wait categories and events to be collected based on the resource consumed and allows you to identify the root cause of any performance issue. For example:

a Categories- wait_io, wait_network, wait_lock etc…,

a Sub Categories- s_wait_lock_exclusive, s_wait_network_io, s_wait_io_completion etc…

For more information, see the following topics:

- Schema Tables
- Samples queries
- General Tables
- Dimension Tables
- Performance Metric (Fact) Tables
- Change Tracking Data

Schema Tables

SQL PI Repository technology allows you to save data for a long period of time. The Time-Pyramid structure for some of the tables uttered by the table names.

For example:

- 1m - means 1 minute interval in some of the 1 minute table there is a sub categorization. The sub categorization allows to use temporary tables that are relevant to a specific timeframe usually 6 hours. Those tables have a name format as follow:
  - YYYYMMDD>0000 (between 00-06)
  - YYYYMMDD>0600 (between 06-12)
  - YYYYMMDD>1200 (between 12-18)
  - YYYYMMDD>1800 (between 18-24)
- 5m - means 15 minutes interval
- 1h - means 1h interval
- 6h - means 6h interval
- 1d - means 1 day interval
- 1w - means 1 week interval

Samples queries

Get the monitored instances details (includes instance#):

select * from pass_instance_dim

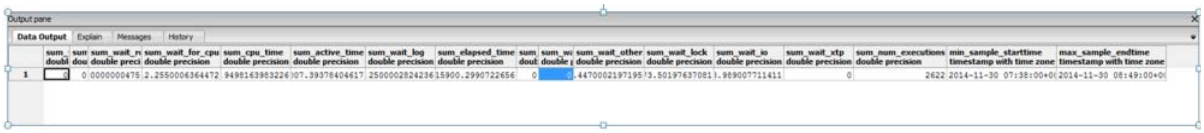
Get the instance wait event summary:

```
 SELECT SUM(wait_clr) AS sum_wait_clr, SUM(wait_memory) AS sum_wait_memory,
SUM(wait_remote_provider) AS sum_wait_remote_provider, SUM(wait_for_cpu) AS
sum_wait_for_cpu, SUM(cpu_time) AS sum_cpu_time, SUM(active_time) AS
sum_active_time, SUM(wait_log) AS sum_wait_log, SUM(elapsed_time) AS
sum_elapsed_time, SUM(wait_latch) AS sum_wait_latch, SUM(wait_network) AS
sum_wait_network, SUM(wait_other) AS sum_wait_other, SUM(wait_lock) AS
```

```
sum_wait_lock, SUM(wait_io) AS sum_wait_io, SUM(wait_xtp) AS sum_wait_xtp,
SUM(num_executions) AS sum_num_executions, MIN(sample_starttime) AS
min_sample_starttime, MAX(sample_endtime) AS max_sample_endtime FROM
pass_instance_stat_fact_1m WHERE  sample_endtime >= ? AND  sample_starttime <= ? AND
instance_key = ?
```

Parameters example: ['YYYY-MM-DD 10:54:10.513+0200', 'YYYY-MM-DD 11:54:10.513+0200', INSTANCE#]

Example output:

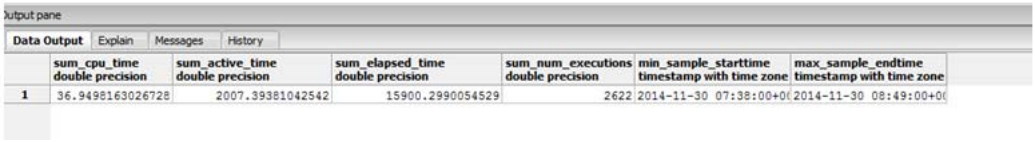


Get summary of several statistics for a specific timeframe for a specific instance.

```
SELECT SUM(cpu_time) AS sum_cpu_time, SUM(active_time) AS sum_active_time,
SUM(elapsed_time) AS sum_elapsed_time, SUM(num_executions) AS sum_num_executions,
MIN(sample_starttime) AS min_sample_starttime, MAX(sample_endtime) AS
max_sample_endtime FROM pass_unique_stat_fact_1m_<YYYYMMDDHHMM> WHERE
sample_endtime >= ? AND sample_starttime <= ? AND  instance_key = ?
```

Parameters example: ['YYYY-MM-DD 10:54:10.513+0200', 'YYYY-MM-DD 11:54:10.513+0200', INSTANCE#]

Example output:



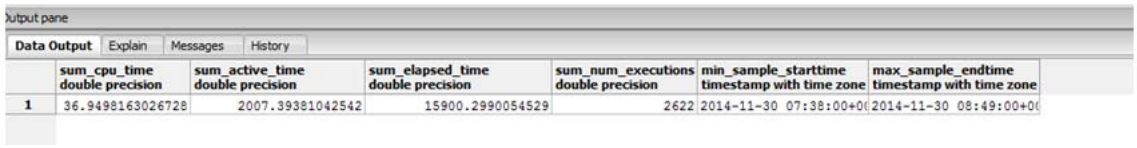
	sum_cpu_time double precision	sum_active_time double precision	sum_elapsed_time double precision	sum_num_executions double precision	min_sample_starttime timestamp with time zone	max_sample_endtime timestamp with time zone
1	36.9498163026728	2007.39381042542	15900.2990054529	2622	2014-11-30 07:38:00+0(	2014-11-30 08:49:00+0(

Get summary of several statistics for a specific timeframe for a specific instance.

```
SELECT SUM(cpu_time) AS sum_cpu_time, SUM(active_time) AS sum_active_time,
SUM(elapsed_time) AS sum_elapsed_time, SUM(num_executions) AS sum_num_executions,
MIN(sample_starttime) AS min_sample_starttime, MAX(sample_endtime) AS
max_sample_endtime FROM pass_unique_stat_fact_1m_<YYYYMMDDHHMM> WHERE
sample_endtime >= ? AND sample_starttime <= ? AND  instance_key = ?
```

Parameters example: ['YYYY-MM-DD 10:54:10.513+0200', 'YYYY-MM-DD 11:54:10.513+0200', INSTANCE#]

Example output:



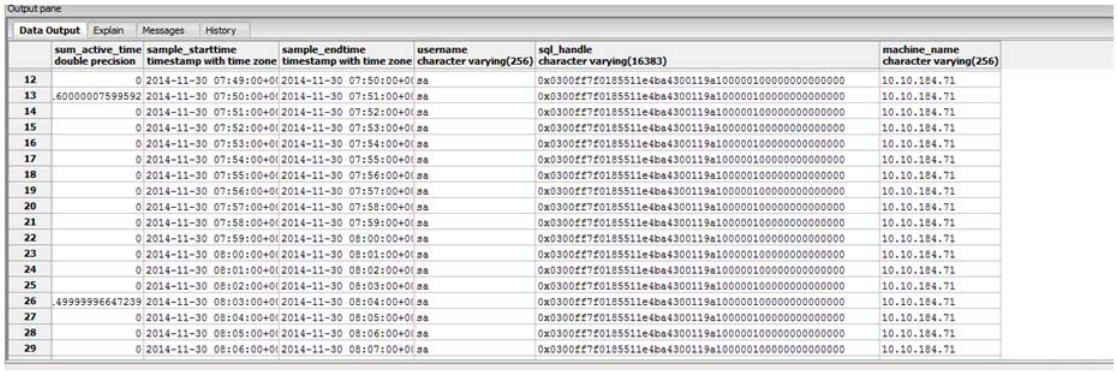
	sum_cpu_time double precision	sum_active_time double precision	sum_elapsed_time double precision	sum_num_executions double precision	min_sample_starttime timestamp with time zone	max_sample_endtime timestamp with time zone
1	36.9498163026728	2007.39381042542	15900.2990054529	2622	2014-11-30 07:38:00+0(	2014-11-30 08:49:00+0(

Get specific details while grouping specific parameters

```
SSELECT SUM(active_time) AS sum_active_time, sample_starttime AS
sample_starttime,sample_endtime AS sample_endtime, username AS username, sql_handle
AS sql_handle,machine_name AS machine_name FROM
pass_unique_stat_fact_1m_<YYYYMMDDHHMM> WHERE sample_endtime >= ? AND
sample_starttime <= ? AND instance_key = ? AND username =? AND sql_handle = ? AND
machine_name = ? GROUP BY sample_endtime, username, machine_name, sql_handle,
sample_starttime ORDER BY sample_starttime ASC
```

Parameters example: ['YYYY-MM-DD 10:50:10.544+0200', 'YYYY-MM-DD 11:54:10.544+0200', Instance#, group by user, group by sql handle, group by machine name]

Example output:



Output pane

Data Output | Explain | Messages | History

	sum_active_time double precision	sample_starttime timestamp with time zone	sample_endtime timestamp with time zone	username character varying(256)	sql_handle character varying(16383)	machine_name character varying(256)
12	0	2014-11-30 07:49:00+0(	2014-11-30 07:50:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
13	.60000007599592	2014-11-30 07:50:00+0(	2014-11-30 07:51:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
14	0	2014-11-30 07:51:00+0(	2014-11-30 07:52:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
15	0	2014-11-30 07:52:00+0(	2014-11-30 07:53:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
16	0	2014-11-30 07:53:00+0(	2014-11-30 07:54:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
17	0	2014-11-30 07:54:00+0(	2014-11-30 07:55:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
18	0	2014-11-30 07:55:00+0(	2014-11-30 07:56:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
19	0	2014-11-30 07:56:00+0(	2014-11-30 07:57:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
20	0	2014-11-30 07:57:00+0(	2014-11-30 07:58:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
21	0	2014-11-30 07:58:00+0(	2014-11-30 07:59:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
22	0	2014-11-30 07:59:00+0(	2014-11-30 08:00:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
23	0	2014-11-30 08:00:00+0(	2014-11-30 08:01:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
24	0	2014-11-30 08:01:00+0(	2014-11-30 08:02:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
25	0	2014-11-30 08:02:00+0(	2014-11-30 08:03:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
26	.49999996647239	2014-11-30 08:03:00+0(	2014-11-30 08:04:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
27	0	2014-11-30 08:04:00+0(	2014-11-30 08:05:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
28	0	2014-11-30 08:05:00+0(	2014-11-30 08:06:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71
29	0	2014-11-30 08:06:00+0(	2014-11-30 08:07:00+0(	sa	0x0300ff7f0185511e4ba4300119a100000100000000000000	10.10.184.71

General Tables

General information related to the repository is stored in:

pa_repository - Repository Schema information

Dimension Tables

Dimension tables allow observed metric (fact) data to be grouped according to significant, unique categories and allow additional information to be stored about them. The Performance Analysis GUI component leverages these dimensions to enable powerful, concise performance analyses.

Dimensions include:

- pass_instance_dim - Accessed to retrieve all monitored instances in the repository
- pass_wait_event_dim - Accessed to retrieve wait event categorization
- pass_batch_dim, pass_batch_dim_1m_<YYYYMMDD>0000, pass_batch_dim_1m_<YYYYMMDD>0600, pass_batch_dim_1m_<YYYYMMDD>1200, pass_batch_dim_1m_<YYYYMMDD>1800 - These tables describe the batches that were part of the activity capture
- pass_object_dim, pass_object_dim_1m_<YYYYMMDD>0000, pass_object_dim_1m_<YYYYMMDD>0600, pass_object_dim_1m_<YYYYMMDD>1200, pass_object_dim_1m_<YYYYMMDD>1800 - These tables describe the objects that were part of the activity capture
- pass_plan_dim, pass_plan_dim_1m_<YYYYMMDD>0000, pass_plan_dim_1m_<YYYYMMDD>0600, pass_plan_dim_1m_<YYYYMMDD>1200, pass_plan_dim_1m_<YYYYMMDD>1800 - These tables describe the plans that were part of the activity capture
- pass_syntax_dim, pass_syntax_dim_1m_<YYYYMMDD>0000, pass_syntax_dim_1m_<YYYYMMDD>0600, pass_syntax_dim_1m_<YYYYMMDD>1200, pass_syntax_dim_1m_<YYYYMMDD>1800 - These tables describe the syntaxes that were part of the activity capture
- pass_file_dim - Accessed to retrieve blocked database object types, names

Performance Metric (Fact) Tables

Performance metrics, observed wait events, and blocking lock scenarios are stored in Fact tables.

For more information, see the following topics:

- Unique Combinations

- Instance Activity
- Sessions Activity

Unique Combinations

Query these tables to retrieve data grouped by multiple dimension types.

Observed metric data is aggregated or averaged for the top n unique combinations of dimensions.

Queries access this data together with the descriptors in the desired metric dimensions to see which unique combinations of available dimensions were the most significant resource consumers during a particular timeframe.

- These tables hold lock activity grouped by all dimensions (unique combination):

  pass_unique_lock_fact_15m, pass_unique_lock_fact_1d, pass_unique_lock_fact_1h, pass_unique_lock_fact_1m_<YYYYMMDD>0000, pass_unique_lock_fact_1m_<YYYYMMDD>0600, pass_unique_lock_fact_1m_<YYYYMMDD>1200, pass_unique_lock_fact_1m_<YYYYMMDD>1800, pass_unique_lock_fact_1w, pass_unique_lock_fact_6h

- These tables hold database activity grouped by all dimensions (unique combination):

  pass_unique_stat_fact_15m, pass_unique_stat_fact_1d, pass_unique_stat_fact_1h, pass_unique_stat_fact_1m_<YYYYMMDD>0000, pass_unique_stat_fact_1m_<YYYYMMDD>0600, pass_unique_stat_fact_1m_<YYYYMMDD>1200, pass_unique_stat_fact_1m_<YYYYMMDD>1800, pass_unique_stat_fact_1w, pass_unique_stat_fact_6h

- These tables hold wait event activity information grouped by all dimensions (unique combination):

  pass_unique_wevent_fact_15m, pass_unique_wevent_fact_1d, pass_unique_wevent_fact_1h, pass_unique_wevent_fact_1m_<YYYYMMDD>0000, pass_unique_wevent_fact_1m_<YYYYMMDD>0600, pass_unique_wevent_fact_1m_<YYYYMMDD>1200, pass_unique_wevent_fact_1m_<YYYYMMDD>1800, pass_unique_wevent_fact_1w, pass_unique_wevent_fact_6h

- These tables hold Object I/O activity information grouped by all dimensions (unique combination):

  pass_unique_object_io_fact_15m, pass_unique_object_io_fact_1d, pass_unique_object_io_fact_1h, pass_unique_object_io_fact_1m_<YYYYMMDD>0000, pass_unique_object_io_fact_1m_<YYYYMMDD>0600, pass_unique_object_io_fact_1m_<YYYYMMDD>1200, pass_unique_object_io_fact_1m_<YYYYMMDD>1800, pass_unique_object_io_fact_1w, pass_unique_object_io_fact_6h

- These tables hold File I/O activity information grouped by all dimensions (unique combination):

  pass_unique_file_io_fact_15m, pass_unique_file_io_fact_1d, pass_unique_file_io_fact_1h, pass_unique_file_io_fact_1m_<YYYYMMDD>0000, pass_unique_file_io_fact_1m_<YYYYMMDD>0600, pass_unique_file_io_fact_1m_<YYYYMMDD>1200, pass_unique_file_io_fact_1m_<YYYYMMDD>1800, pass_unique_file_io_fact_1w, pass_unique_file_io_fact_6h

Instance Activity

- These tables contain information about observed blocking lock scenarios at the instance level for a specific time period:

  pass_instance_lock_fact_15m, pass_instance_lock_fact_1d, pass_instance_lock_fact_1h, pass_instance_lock_fact_1m, pass_instance_lock_fact_1w, pass_instance_lock_fact_6h

- These tables contain performance metric data aggregated to the instance level for a specific time period:

  pass_instance_stat_fact_15m, pass_instance_stat_fact_1d, pass_instance_stat_fact_1h, pass_instance_stat_fact_1m, pass_instance_stat_fact_1w, pass_instance_stat_fact_6h

- These tables contain information about observed wait events at the instance-level for specific time periods:

pass_instance_wevent_fact_15m, pass_instance_wevent_fact_1d, pass_instance_wevent_fact_1h, pass_instance_wevent_fact_1m, pass_instance_wevent_fact_1w, pass_instance_wevent_fact_6h

Sessions Activity

- These tables contain the sessions activity (SQL Server requests):

  pass_request_stat_fact_1m_<YYYYMMDD>0000, pass_request_stat_fact_1m_<YYYYMMDD>0600, pass_request_stat_fact_1m_<YYYYMMDD>1200, pass_request_stat_fact_1m_<YYYYMMDD>1800

- These tables contain the locks tree information:

  pass_lock_tree_fact_15m, pass_lock_tree_fact_1d, pass_lock_tree_fact_1h, pass_lock_tree_fact_1m_<YYYYMMDD>0000, pass_lock_tree_fact_1m_<YYYYMMDD>0600, pass_lock_tree_fact_1m_<YYYYMMDD>1200, pass_lock_tree_fact_1m_<YYYYMMDD>1800, pass_lock_tree_fact_1w, pass_lock_tree_fact_6h

Change Tracking Data

For detailed information, see the following topics:

- Change Tracking Tables
- Change Tracking Snapshots Tables

Change Tracking Tables

This table contains the record of changes per type over time:

- pass_change_tracking_item

Change Tracking Snapshots Tables

- This table holds the database constraints snapshot to compare against: pass_ct_constraints_state
- This table holds the database properties snapshot to compare against: pass_ct_database_properties_state
- This table holds the database disks snapshot to compare against: pass_ct_disks_state
- This table holds the database file groups snapshot to compare against: pass_ct_file_group_state
- This table holds the database files snapshot to compare against: pass_ct_files_state
- This table holds the database network interface snapshot to compare against: pass_ct_network_interface_state
- This table holds the database partitions snapshot to compare against: pass_ct_partitions_state
- This table holds the database space allocation snapshot to compare against: pass_ct_swap_space_allocation_state
- This table holds the database user account snapshot to compare against: pass_ct_user_account_state
- This table holds the database version info snapshot to compare against: pass_ct_version_info_state

Table Data dictionary

Table 2. List of table names

Table Names
pa_repository
pass_batch_dim
pass_batch_dim_1m_<YYYYMMDD>0000
pass_batch_dim_1m_<YYYYMMDD>0600
pass_batch_dim_1m_<YYYYMMDD>1200
pass_batch_dim_1m_<YYYYMMDD>1800
pass_change_tracking_item
pass_ct_constraints_state
pass_ct_database_properties_state
pass_ct_disks_state
pass_ct_file_group_state
pass_ct_files_state
pass_ct_network_interface_state
pass_ct_partitions_state
pass_ct_swap_space_allocation_state
pass_ct_user_account_state
pass_ct_version_info_state
pass_dim_lock_fact_15m
pass_dim_lock_fact_1d
pass_dim_lock_fact_1h
pass_dim_lock_fact_1m_<YYYYMMDD>0000
pass_dim_lock_fact_1m_<YYYYMMDD>0600
pass_dim_lock_fact_1m_<YYYYMMDD>1200
pass_dim_lock_fact_1m_<YYYYMMDD>1800
pass_dim_lock_fact_1w
pass_dim_lock_fact_6h
pass_dim_stat_fact_15m
pass_dim_stat_fact_1d
pass_dim_stat_fact_1h
pass_dim_stat_fact_1m_<YYYYMMDD>0000
pass_dim_stat_fact_1m_<YYYYMMDD>0600
pass_dim_stat_fact_1m_<YYYYMMDD>1200
pass_dim_stat_fact_1m_<YYYYMMDD>1800
pass_dim_stat_fact_1w
pass_dim_stat_fact_6h
pass_dim_wevent_fact_15m
pass_dim_wevent_fact_1d
pass_dim_wevent_fact_1h
pass_dim_wevent_fact_1m_<YYYYMMDD>0000

Table 2. List of table names

Table Names
pass_dim_wevent_fact_1m_<YYYYMMDD>0600
pass_dim_wevent_fact_1m_<YYYYMMDD>1200
pass_dim_wevent_fact_1m_<YYYYMMDD>1800
pass_dim_wevent_fact_1w
pass_dim_wevent_fact_6h
pass_file_dim
pass_general_config
pass_instance_dim
pass_instance_lock_fact_15m
pass_instance_lock_fact_1d
pass_instance_lock_fact_1h
pass_instance_lock_fact_1m
pass_instance_lock_fact_1w
pass_instance_lock_fact_6h
pass_instance_stat_fact_15m
pass_instance_stat_fact_1d
pass_instance_stat_fact_1h
pass_instance_stat_fact_1m
pass_instance_stat_fact_1w
pass_instance_stat_fact_6h
pass_instance_wevent_fact_15m
pass_instance_wevent_fact_1d
pass_instance_wevent_fact_1h
pass_instance_wevent_fact_1m
pass_instance_wevent_fact_1w
pass_instance_wevent_fact_6h
pass_object_dim
pass_object_dim_1m_<YYYYMMDD>0000
pass_object_dim_1m_<YYYYMMDD>0600
pass_object_dim_1m_<YYYYMMDD>1200
pass_object_dim_1m_<YYYYMMDD>1800
pass_plan_dim
pass_plan_dim_1m_<YYYYMMDD>0000
pass_plan_dim_1m_<YYYYMMDD>0600
pass_plan_dim_1m_<YYYYMMDD>1200
pass_plan_dim_1m_<YYYYMMDD>1800
pass_plan_syntax_history
pass_request_lock_fact_15m
pass_request_lock_fact_1d
pass_request_lock_fact_1h
pass_request_lock_fact_1m_<YYYYMMDD>0000
pass_request_lock_fact_1m_<YYYYMMDD>0600

Table 2. List of table names

Table Names
pass_request_lock_fact_1m_<YYYYMMDD>1200
pass_request_lock_fact_1m_<YYYYMMDD>1800
pass_request_lock_fact_1w
pass_request_lock_fact_6h
pass_request_stat_fact_15m
pass_request_stat_fact_1d
pass_request_stat_fact_1h
pass_request_stat_fact_1m_<YYYYMMDD>0000
pass_request_stat_fact_1m_<YYYYMMDD>0600
pass_request_stat_fact_1m_<YYYYMMDD>1200
pass_request_stat_fact_1m_<YYYYMMDD>1800
pass_request_stat_fact_1w
pass_request_stat_fact_6h
pass_syntax_dim
pass_syntax_dim_1m_<YYYYMMDD>0000
pass_syntax_dim_1m_<YYYYMMDD>0600
pass_syntax_dim_1m_<YYYYMMDD>1200
pass_syntax_dim_1m_<YYYYMMDD>1800
pass_unique_file_io_fact_15m
pass_unique_file_io_fact_1d
pass_unique_file_io_fact_1h
pass_unique_file_io_fact_1m_<YYYYMMDD>0000
pass_unique_file_io_fact_1m_<YYYYMMDD>0600
pass_unique_file_io_fact_1m_<YYYYMMDD>1200
pass_unique_file_io_fact_1m_<YYYYMMDD>1800
pass_unique_file_io_fact_1w
pass_unique_file_io_fact_6h
pass_unique_lock_fact_15m
pass_unique_lock_fact_1d
pass_unique_lock_fact_1h
pass_unique_lock_fact_1m_<YYYYMMDD>0000
pass_unique_lock_fact_1m_<YYYYMMDD>0600
pass_unique_lock_fact_1m_<YYYYMMDD>1200
pass_unique_lock_fact_1m_<YYYYMMDD>1800
pass_unique_lock_fact_1w
pass_unique_lock_fact_6h
pass_unique_object_io_fact_15m
pass_unique_object_io_fact_1d
pass_unique_object_io_fact_1h
pass_unique_object_io_fact_1m_<YYYYMMDD>0000
pass_unique_object_io_fact_1m_<YYYYMMDD>0600
pass_unique_object_io_fact_1m_<YYYYMMDD>1200

Table 2. List of table names

Table Names
pass_unique_object_io_fact_1m_<YYYYMMDD>1800
pass_unique_object_io_fact_1w
pass_unique_object_io_fact_6h
pass_unique_stat_fact_15m
pass_unique_stat_fact_1d
pass_unique_stat_fact_1h
pass_unique_stat_fact_1m_<YYYYMMDD>0000
pass_unique_stat_fact_1m_<YYYYMMDD>0600
pass_unique_stat_fact_1m_<YYYYMMDD>1200
pass_unique_stat_fact_1m_<YYYYMMDD>1800
pass_unique_stat_fact_1w
pass_unique_stat_fact_6h
pass_unique_wevent_fact_15m
pass_unique_wevent_fact_1d
pass_unique_wevent_fact_1h
pass_unique_wevent_fact_1m_<YYYYMMDD>0000
pass_unique_wevent_fact_1m_<YYYYMMDD>0600
pass_unique_wevent_fact_1m_<YYYYMMDD>1200
pass_unique_wevent_fact_1m_<YYYYMMDD>1800
pass_unique_wevent_fact_1w
pass_unique_wevent_fact_6h
pass_wait_event_dim

For detailed information, see the following topics:

- pass_batch_dim
- pass_change_tracking_item
- pass_ct_constraints_state
- pass_ct_database_properties_state
- pass_ct_disks_state
- pass_ct_file_group_state
- pass_ct_files_state
- pass_ct_network_interface_state
- pass_ct_partitions_state
- pass_ct_swap_space_allocation_state
- pass_ct_user_account_state
- pass_ct_version_info_state
- pass_general_config
- pass_file_dim
- pass_instance_dim
- pass_instance_lock_fact
- pass_instance_stat_fact

- pass_instance_wevent_fact
- pass_object_dim
- pass_plan_dim
- pass_plan_syntax_history
- pass_request_lock_fact
- pass_request_stat_fact_1m
- pass_syntax_dim
- pass_unique_file_io_stat_fact
- pass_unique_lock_fact
- pass_unique_object_io_stat_fact
- pass_unique_stat_fact
- pass_unique_wevent_fact
- pass_wait_event_dim

pass_batch_dim

Table 3. pass_batch_dim

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	Smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sql_handle	character varying (16383)	No	No		
batch_name	character varying (256)	No	No		
batch_text	character varying (16383)	No	No		
batch_short_text	character varying (256)	No	No		

pass_change_tracking_item

Table 4. pass_change_tracking_item

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	Smallint	No	No		
inserted_time	timestamp with time zone	No	No		
category_main	character varying (16383)	No	No		
category	character varying (16383)	No	No		
change_type	character varying (16383)	No	No		
ojbect_name_1	character varying (16383)	No	No		
object_name_2	character varying (16383)	No	No		
attribute	character varying (16383)	No	No		
new_value	character varying (16383)	No	No		
old_value	character varying (16383)	No	No		
change_datetime	timestamp without time zone	No	No		

Table 4. pass_change_tracking_item

Name	Data type	Not Null?	Primary Key?	Default	Comment
change_by_user	character varying (16383)	No	No		
change_by application	character varying (16383)	No	No		
change_by_server	character varying (16383)	No	No		

pass_ct_constraints_state

Table 5. pass_ct_constraints_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	Smallint	No	No		
inserted_time	timestamp with time zone	No	No		
dbname	character varying (16383)	No	No		
table_name	character varying (16383)	No	No		
constraint_schema	character varying (16383)	No	No		
constraint_name	character varying (16383)	No	No		
column_name	character varying (16383)	No	No		
check_clause	character varying (16383)	No	No		

pass_ct_database_properties_state

Table 6. pass_ct_database_properties_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	Smallint	No	No		
inserted_time	timestamp with time zone	No	No		
dbid	integer	No	No		
db_name	character varying (16383)	No	No		
ansi_null_default	integer	No	No		
ansi_nulls	integer	No	No		
ansi_padding	integer	No	No		
ansi_warnings	integer	No	No		
arithmetic_abort	integer	No	No		
auto_close	integer	No	No		
auto_create_statistics	integer	No	No		
auto_shrink	integer	No	No		
bulk_copy	integer	No	No		
auto_update_statistics	integer	No	No		
close_cursors_on_commit	integer	No	No		

Table 6. pass_ct_database_properties_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
t_collation	character varying (16383)	No	No		
fulltext	integer	No	No		
local_cursors_default	integer	No	No		
merge_published	integer	No	No		
null_concat	integer	No	No		
numeric_round_abort	integer	No	No		
quoted_identifiers	integer	No	No		
recovery	character varying (16383)	No	No		
recursive_triggers	integer	No	No		
t_status	character varying (16383)	No	No		
subscribed	integer	No	No		
page_verify_option_desc	character varying (16383)	No	No		
trunc_log	integer	No	No		
updateability	character varying (16383)	No	No		
user_access	character varying (16383)	No	No		

pass_ct_disks_state

Table 7. pass_ct_disks_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
name	character varying(16383)	No	No		
caption	character varying(16383)	No	No		

pass_ct_file_group_state

Table 8. pass_ct_file_group_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
db_name	character varying(16383)	No	No		
file_group_name	character varying(16383)	No	No		
dbid	integer	No	No		
t_type	character varying(16383)	No	No		

Table 8. pass_ct_file_group_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
can_grow	character varying(16383)	No	No		
is_read_only	integer	No	No		

pass_ct_files_state

Table 9. pass_ct_files_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
db_name	character varying(16383)	No	No		
file_group_name	character varying(16383)	No	No		
file_name	character varying(16383)	No	No		
db_and_file	character varying(16383)	No	No		
dbid	integer	No	No		
t_type	character varying(16383)	No	No		
auto_grow	character varying(16383)	No	No		
max_size	character varying(16383)	No	No		
growth_increment	character varying(16383)	No	No		
growth_by_pct	integer	No	No		
path	character varying(16383)	No	No		

pass_ct_network_interface_state

Table 10. pass_ct_network_interface_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
name	character varying(16383)	No	No		
caption	character varying(16383)	No	No		

pass_ct_partitions_state

Table 11. pass_ct_partitions_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
database_name	character varying(16383)	No	No		

Table 11. pass_ct_partitions_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
object_id	integer	No	No		
object_name	character varying(16383)	No	No		
partition_number	integer	No	No		
schema_id	integer	No	No		
partition_schema	character varying(16383)	No	No		
partition_function	character varying(16383)	No	No		
boundary_value_on_right	character varying(16383)	No	No		
destination_data_space	character varying(16383)	No	No		
boundary_value	character varying(16383)	No	No		
data_compression_desc	character varying(16383)	No	No		

pass_ct_swap_space_allocation_state

Table 12. pass_ct_swap_space_allocation_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
name	character varying(16383)	No	No		
allocatedbasesize	integer	No	No		

pass_ct_user_account_state

Table 13. pass_ct_user_account_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
t_name	character varying(16383)	No	No		
createdate	timestamp without time zone	No	No		
updatedate	timestamp without time zone	No	No		
denylogin	integer	No	No		
hasaccess	integer	No	No		
isntname	integer	No	No		
isntgroup	integer	No	No		
isntuser	integer	No	No		
sysadmin	integer	No	No		
securityadmin	integer	No	No		

Table 13. pass_ct_user_account_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
serveradmin	integer	No	No		
setupadmin	integer	No	No		
processadmin	integer	No	No		
diskadmin	integer	No	No		
dbcreator	integer	No	No		
bulkadmin	integer	No	No		

pass_ct_version_info_state

Table 14. pass_ct_version_info_state

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
product_version	character varying(16383)	No	No		
sql_version	character varying(16383)	No	No		
nt_version	character varying(16383)	No	No		
windows_version	character varying(16383)	No	No		
t_collation	character varying(16383)	No	No		
sql_edition	character varying(16383)	No	No		
sp_version	character varying(16383)	No	No		
server_name	character varying(16383)	No	No		
processor_count	integer	No	No		
processor_type	integer	No	No		
physical_memory	integer	No	No		
is_log_shipping	integer	No	No		
is_mirroring	integer	No	No		
is_cluster	integer	No	No		
is_distributor	integer	No	No		
is_hadr_enabled	integer	No	No		

pass_general_config

Table 15. pass_general_config

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
property_name	character varying (256)	No	No		
config_value	character varying (256)	No	No		

pass_file_dim

Table 16. pass_file_dim

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
file_id	integer	No	No		
file_database_id	smallint	No	No		
database_name	character varying(256)	No	No		
file_name	character varying(256)	No	No		

pass_instance_dim

Table 17. pass_instance_dim

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
create_date	timestamp with time zone	No	No		
updated_date	timestamp with time zone	No	No		
instance_name	character varying(256)	No	No		
host	character varying(256)	No	No		
additional_info	character varying(16383)	No	No		
pass_version	character varying(256)	No	No		
hw_type	character varying(256)	No	No		
os_type	character varying(256)	No	No		
os_release	character varying(256)	No	No		
os_version	character varying(256)	No	No		
db_version	character varying(256)	No	No		
monitored	integer	No	No		

pass_instance_lock_fact

Table 18. pass_instance_lock_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
object_id	character varying(256)	No	No		

Table 18. pass_instance_lock_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
blck_client_machine_name	character varying(256)	No	No		
blck_program_name	character varying(256)	No	No		
blck_username	character varying(256)	No	No		
blck_sql_handle	character varying(16383)	No	No		
event_duration	double precision	No	No		
lock_tree_id	bigint	No	No		

pass_instance_stat_fact

Table 19. pass_instance_stat_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
physical_reads	double precision	No	No		
logical_reads	double precision	No	No		
num_executions	double precision	No	No		
row_count	double precision	No	No		
writes	double precision	No	No		
cpu_time	double precision	No	No		
active_time	double precision	No	No		
elapsed_time	double precision	No	No		
granted_query_memory	double precision	No	No		
degree_of_parallelism	double precision	No	No		
tempdb_io	double precision	No	No		
tempdb_gam_wait	double precision	No	No		
tempdb_sgam_wait	double precision	No	No		
tempdb_pfs_wait	double precision	No	No		
wait_log	double precision	No	No		
wait_remote_provider	double precision	No	No		
wait_lock	double precision	No	No		
wait_latch	double precision	No	No		
wait_network	double precision	No	No		
wait_io	double precision	No	No		
wait_other	double precision	No	No		
wait_xtp	double precision	No	No		
wait_for_cpu	double precision	No	No		

Table 19. pass_instance_stat_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
wait_idle	double precision	No	No		
wait_clr	double precision	No	No		
wait_memory	double precision	No	No		
s_wait_lock_shared	double precision	No	No		
s_wait_lock_exclusive	double precision	No	No		
s_wait_lock_bulk_update	double precision	No	No		
s_wait_lock_schema	double precision	No	No		
s_wait_lock_update	double precision	No	No		
s_wait_lock_intent	double precision	No	No		
s_wait_network_io	double precision	No	No		
s_wait_network_mirror	double precision	No	No		
s_wait_network_ipc	double precision	No	No		
s_wait_network_http	double precision	No	No		
s_wait_other_hosted_comp	double precision	No	No		
s_wait_other_external_proc	double precision	No	No		
s_wait_other_db_replicate	double precision	No	No		
s_wait_other_service_broker	double precision	No	No		
s_wait_other_misc	double precision	No	No		
s_wait_other_fulltext	double precision	No	No		
s_wait_parallel_coordination	double precision	No	No		
s_wait_other_backup	double precision	No	No		
s_wait_other_sync_task	double precision	No	No		
s_wait_cursor_synchronization	double precision	No	No		
s_wait_other_hadr	double precision	No	No		
s_wait_other_deferred_task	double precision	No	No		
s_wait_io_completion	double precision	No	No		
s_wait_io_bulk_load	double precision	No	No		
s_wait_io_data_page	double precision	No	No		
s_wait_latch_buffer	double precision	No	No		
s_wait_remote_dist_tran	double precision	No	No		
s_wait_remote_oledb	double precision				
s_wait_log_synch	double precision				
s_wait_log_other	double precision				
s_wait_log_write	double precision				
s_wait_log_buffer	double precision				
s_wait_latch_general	double precision				
s_wait_latch_savepoint	double precision				
s_wait_xtp_tran	double precision				
s_wait_xtp_proc	double precision	No	No		
s_wait_xtp_log	double precision	No	No		
s_wait_xtp_misc	double precision	No	No		

pass_instance_wevent_fact

Table 20. pass_instance_wevent_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
file_id	integer	No	No		
file_database_id	smallint	No	No		
wait_event_name	character varying(256)	No	No		
category_name	character varying(256)	No	No		
sub_category_name	character varying(256)	No	No		
event_duration	double precision	No	No		

pass_object_dim

Table 21. pass_object_dim

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
object_id	character varying(256)	No	No		
object_name	character varying(256)	No	No		
object_database	character varying(256)	No	No		
object_type	character varying(256)	No	No		
object_owner	character varying(256)	No	No		

pass_plan_dim

Table 22. pass_plan_dim

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
resolving_time	timestamp with time zone	No	No		
plan_handle	character varying(16383)	No	No		
query_plan	character varying(16383)	No	No		
plan_type	character varying(256)	No	No		

Table 22. pass_plan_dim

Name	Data type	Not Null?	Primary Key?	Default	Comment
plan_text_hash	integer	No	No		
sql_handle	character varying(16383)	No	No		

pass_plan_syntax_history

Table 23. pass_plan_syntax_history

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
query_hash	character varying (16383)	No	No		
username	character varying (16383)	No	No		
database_name	character varying (256)	No	No		
query_plan_hash	character varying (16383)	No	No		
plan_handle	character varying (16383)	No	No		

pass_request_lock_fact

Table 24. pass_request_lock_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
session_id	smallint	No	No		
login_time	bigint	No	No		
database_name	character varying(256)	No	No		
machine_name	character varying(256)	No	No		
program_name	character varying(256)	No	No		
username	character varying(256)	No	No		
context_info	bytea	No	No		
command_name	character varying(256)	No	No		
query_hash	character varying(16383)	No	No		
sql_handle	character varying(16383)	No	No		
erp1_name	character varying(256)	No	No		
erp2_name	character varying(256)	No	No		
erp3_name	character varying(256)	No	No		
erp4_name	character varying(256)	No	No		
erp5_name	character varying(256)	No	No		

Table 24. pass_request_lock_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
object_id	character varying(256)	No	No		
blck_session_id	smallint	No	No		
blck_login_time	bigint	No	No		
blck_client_machine_name	character varying(256)	No	No		
blck_program_name	character varying(256)	No	No		
blck_username	character varying(256)	No	No		
blck_sql_handle	character varying(16383)	No	No		
event_duration	double precision	No	No		

pass_request_stat_fact_1m

Table 25. pass_request_stat_fact_1m

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
session_id	smallint	No	No		
login_time	bigint	No	No		
database_name	character varying(256)	No	No		
machine_name	character varying(256)	No	No		
program_name	character varying(256)	No	No		
username	character varying(256)	No	No		
context_info	byte	No	No		
command_name	character varying(256)	No	No		
query_hash	character varying(16383)	No	No		
sql_handle	character varying(16383)	No	No		
erp1_name	character varying(256)	No	No		
erp2_name	character varying(256)	No	No		
erp3_name	character varying(256)	No	No		
erp4_name	character varying(256)	No	No		
erp5_name	character varying(256)	No	No		
physical_reads	double precision	No	No		
logical_reads	double precision	No	No		
num_executions	double precision	No	No		
row_count	double precision	No	No		
writes	double precision	No	No		
cpu_time	double precision	No	No		

Table 25. pass_request_stat_fact_1m

Name	Data type	Not Null?	Primary Key?	Default	Comment
active_time	double precision	No	No		
elapsed_time	double precision	No	No		
granted_query_memory	double precision	No	No		
degree_of_parallelism	double precision	No	No		
tempdb_io	double precision	No	No		
tempdb_gam_wait	double precision	No	No		
tempdb_sgam_wait	double precision	No	No		
tempdb_pfs_wait	double precision	No	No		
wait_log	double precision	No	No		
wait_remote_provider	double precision	No	No		
wait_lock	double precision	No	No		
wait_latch	double precision	No	No		
wait_network	double precision	No	No		
wait_io	double precision	No	No		
wait_other	double precision	No	No		
wait_xtp	double precision	No	No		
wait_for_cpu	double precision	No	No		
wait_idle	double precision	No	No		
wait_clr	double precision	No	No		
wait_memory	double precision	No	No		
s_wait_lock_shared	double precision	No	No		
s_wait_lock_exclusive	double precision	No	No		
s_wait_lock_bulk_update	double precision	No	No		
s_wait_lock_schema	double precision	No	No		
s_wait_lock_update	double precision	No	No		
s_wait_lock_intent	double precision	No	No		
s_wait_network_io	double precision	No	No		
s_wait_network_mirror	double precision	No	No		
s_wait_network_ipc	double precision	No	No		
s_wait_network_http	double precision	No	No		
s_wait_other_hosted_comp	double precision	No	No		
s_wait_other_external_proc	double precision	No	No		
s_wait_other_db_replicate	double precision	No	No		

Table 25. pass_request_stat_fact_1m

Name	Data type	Not Null?	Primary Key?	Default	Comment
s_wait_other_service_broker	double precision	No	No		
s_wait_other_misc	double precision	No	No		
s_wait_other_fulltext	double precision	No	No		
s_wait_parallel_coordination	double precision	No	No		
s_wait_other_backup	double precision	No	No		
s_wait_other_sync_task	double precision	No	No		
s_wait_cursor_synchronization	double precision	No	No		
s_wait_other_hadr	double precision	No	No		
s_wait_other_deferred_task	double precision	No	No		
s_wait_io_completion	double precision	No	No		
s_wait_io_bulk_load	double precision	No	No		
s_wait_io_data_page	double precision	No	No		
s_wait_latch_buffer	double precision	No	No		
s_wait_remote_dist_tran	double precision	No	No		
s_wait_remote_oledb	double precision	No	No		
s_wait_log_synch	double precision	No	No		
s_wait_log_other	double precision	No	No		
s_wait_log_write	double precision	No	No		
s_wait_log_buffer	double precision	No	No		
s_wait_latch_general	double precision	No	No		
s_wait_latch_savepoint	double precision	No	No		
s_wait_xtp_tran	double precision	No	No		
s_wait_xtp_proc	double precision	No	No		
s_wait_xtp_log	double precision	No	No		
s_wait_xtp_misc	double precision	No	No		
object_id	character varying (256)	No	No		
blck_session_id	smallint	No	No		
blck_login_time	bigint	No	No		
blck_client_machine_name	character varying (256)	No	No		
blck_program_name	character varying (256)	No	No		

Table 25. pass_request_stat_fact_1m

Name	Data type	Not Null?	Primary Key?	Default	Comment
blck_username	character varying (256)	No	No		
blck_sql_handle	character varying (256)	No	No		
event_duration	double precision	No	No		
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		

pass_syntax_dim

Table 26. pass_syntax_dim

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
query_hash	character varying(16383)	No	No		
sql_text	character varying(16383)	No	No		
sql_short_text	character varying(256)	No	No		

pass_unique_file_io_stat_fact

Table 27. pass_unique_file_io_stat_fact

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
database_name	character varying(256)	No	No		
machine_name	character varying(256)	No	No		
program_name	character varying(256)	No	No		
username	character varying(256)	No	No		
context_info	bytea	No	No		
command_name	character varying(256)	No	No		
query_hash	character varying(16383)	No	No		
sql_handle	character varying(16383)	No	No		
erp1_name	character varying(256)	No	No		
erp2_name	character varying(256)	No	No		
erp3_name	character varying(256)	No	No		
erp4_name	character varying(256)	No	No		

Table 27. pass_unique_file_io_stat_fact

erp5_name	character varying(256)	No	No
file_name	character varying(256)	No	No
disk_name	character varying(256)	No	No
file_database_name	character varying(16383)	No	No
logical_file_name	character varying(16383)	No	No
total_io_mbytes	double precision	No	No
mb_read	double precision	No	No
mb_writen	double precision	No	No
mb_on_disk	double precision	No	No
total_wait_time	double precision	No	No
reads_waits_time	double precision	No	No
writes_waits_time	double precision	No	No
number_reads	double precision	No	No
number_writes	double precision	No	No
wait_io	double precision	No	No
s_wait_other_deferred_task	double precision	No	No
s_wait_io_completion	double precision	No	No
s_wait_io_bulk_load	double precision	No	No
s_wait_io_data_page	double precision	No	No
s_wait_latch_buffer	double precision	No	No

pass_unique_lock_fact

Table 28. pass_unique_lock_fact

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
database_name	character varying(256)	No	No		
machine_name	character varying(256)	No	No		
program_name	character varying(256)	No	No		
username	character varying(256)	No	No		
context_info	bytea	No	No		
command_name	character varying(256)	No	No		
query_hash	character varying(16383)	No	No		
sql_handle	character varying(16383)	No	No		
erp1_name	character varying(256)	No	No		
erp2_name	character varying(256)	No	No		

Table 28. pass_unique_lock_fact

erp3_name	character varying(256)	No	No
erp4_name	character varying(256)	No	No
erp5_name	character varying(256)	No	No
object_id	character varying(256)	No	No
blck_client_machine_name	character varying(256)	No	No
blck_program_name	character varying(256)	No	No
blck_username	character varying(256)	No	No
blck_sql_handle	character varying(16383)	No	No
event_duration	double precision	No	No
lock_tree_id	bigint	No	No

pass_unique_object_io_stat_fact

Table 29. pass_unique_object_io_stat_fact

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
database_name	character varying(256)	No	No		
machine_name	character varying(256)	No	No		
program_name	character varying(256)	No	No		
username	character varying(256)	No	No		
context_info	bytea	No	No		
command_name	character varying(256)	No	No		
query_hash	character varying(16383)	No	No		
sql_handle	character varying(16383)	No	No		
erp1_name	character varying(256)	No	No		
erp2_name	character varying(256)	No	No		
erp3_name	character varying(256)	No	No		
erp4_name	character varying(256)	No	No		
erp5_name	character varying(256)	No	No		
object_database	character varying(256)	No	No		
object_owner	character varying(256)	No	No		
object_name	character varying(256)	No	No		
object_type	character varying(256)	No	No		
logical_reads	double precision	No	No		
physical_reads	double precision	No	No		
row_count	double precision	No	No		

Table 29. pass_unique_object_io_stat_fact

writes	double precision	No	No
estimate_rows	double precision	No	No
avg_row_size	double precision	No	No
avg_col_referenced	double precision	No	No
wait_io	double precision	No	No
s_wait_other_deferred_task	double precision	No	No
s_wait_io_completion	double precision	No	No
s_wait_io_bulk_load	double precision	No	No
s_wait_io_data_page	double precision	No	No
s_wait_latch_buffer	double precision	No	No

pass_unique_stat_fact

Table 30. pass_unique_stat_fact

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
database_name	character varying(256)	No	No		
machine_name	character varying(256)	No	No		
program_name	character varying(256)	No	No		
username	character varying(256)	No	No		
context_info	bytea	No	No		
command_name	character varying(256)	No	No		
query_hash	character varying(16383)	No	No		
sql_handle	character varying(16383)	No	No		
erp1_name	character varying(256)	No	No		
erp2_name	character varying(256)	No	No		
erp3_name	character varying(256)	No	No		
erp4_name	character varying(256)	No	No		
erp5_name	character varying(256)	No	No		
plan_handle	character varying(16383)	No	No		
query_plan_hash	character varying(16383)	No	No		
physical_reads	double precision	No	No		
logical_reads	double precision	No	No		
num_executions	double precision	No	No		
row_count	double precision	No	No		
writes	double precision	No	No		

Table 30. pass_unique_stat_fact

cpu_time	double precision	No	No
active_time	double precision	No	No
elapsed_time	double precision	No	No
granted_query_memory	double precision	No	No
degree_of_parallelism	double precision	No	No
tempdb_io	double precision	No	No
tempdb_gam_wait	double precision	No	No
tempdb_sgam_wait	double precision	No	No
tempdb_pfs_wait	double precision	No	No
plan_recompilations	double precision	No	No
wait_log	double precision	No	No
wait_remote_provider	double precision	No	No
wait_lock	double precision	No	No
wait_latch	double precision	No	No
wait_network	double precision	No	No
wait_io	double precision	No	No
wait_other	double precision	No	No
wait_xtp	double precision	No	No
wait_for_cpu	double precision	No	No
wait_idle	double precision	No	No
wait_clr	double precision	No	No
wait_memory	double precision	No	No
s_wait_lock_shared	double precision	No	No
s_wait_lock_exclusive	double precision	No	No
s_wait_lock_bulk_update	double precision	No	No
s_wait_lock_schema	double precision	No	No
s_wait_lock_update	double precision	No	No
s_wait_lock_intent	double precision	No	No
s_wait_network_io	double precision	No	No
s_wait_network_mirror	double precision	No	No
s_wait_network_ipc	double precision	No	No
s_wait_network_http	double precision	No	No
s_wait_other_hosted_comp	double precision	No	No
s_wait_other_external_proc	double precision	No	No
s_wait_other_db_replicate	double precision	No	No
s_wait_other_service_broker	double precision	No	No
s_wait_other_misc	double precision	No	No
s_wait_other_fulltext	double precision	No	No
s_wait_parallel_coordination	double precision	No	No
s_wait_other_backup	double precision	No	No
s_wait_other_sync_task	double precision	No	No

Table 30. pass_unique_stat_fact

s_wait_cursor_synchronization	double precision	No	No
s_wait_other_hadr	double precision	No	No
s_wait_other_deferred_task	double precision	No	No
s_wait_io_completion	double precision	No	No
s_wait_io_bulk_load	double precision	No	No
s_wait_io_data_page	double precision	No	No
s_wait_latch_buffer	double precision	No	No
s_wait_remote_dist_tran	double precision	No	No
s_wait_remote_oledb	double precision	No	No
s_wait_log_synch	double precision	No	No
s_wait_log_other	double precision	No	No
s_wait_log_write	double precision	No	No
s_wait_log_buffer	double precision	No	No
s_wait_latch_general	double precision	No	No
s_wait_latch_savepoint	double precision	No	No
s_wait_xtp_tran	double precision	No	No
s_wait_xtp_proc	double precision	No	No
s_wait_xtp_log	double precision	No	No
s_wait_xtp_misc	double precision	No	No

pass_unique_wevent_fact

Table 31. pass_unique_wevent_fact

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
database_name	character varying(256)	No	No		
machine_name	character varying(256)	No	No		
program_name	character varying(256)	No	No		
username	character varying(256)	No	No		
context_info	bytea	No	No		
command_name	character varying(256)	No	No		
query_hash	character varying(16383)	No	No		
sql_handle	character varying(16383)	No	No		
erp1_name	character varying(256)	No	No		
erp2_name	character varying(256)	No	No		
erp3_name	character varying(256)	No	No		

Table 31. pass_unique_wevent_fact

erp4_name	character varying(256)	No	No
erp5_name	character varying(256)	No	No
file_id	integer	No	No
file_database_id	smallint	No	No
wait_event_name	character varying(256)	No	No
category_name	character varying(256)	No	No
sub_category_name	character varying(256)	No	No
event_duration	double precision	No	No

pass_wait_event_dim

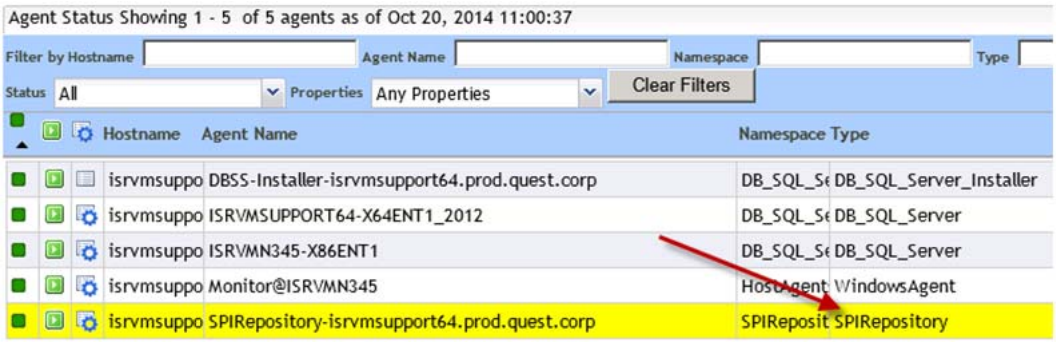
Table 32. pass_wait_event_dim

Name	Data type	Not Null?	Primary key?	Default	Comment
wait_event_id	integer	No	No		
wait_event_name	character varying(256)	No	No		
category_name	character varying(256)	No	No		
sub_category_name	character varying(256)	No	No		

SQL PI Repository Cold Backup Procedure

To perform a cold backup of the SQL PI Repository:

1 Deactivate the SPIRepository Agent.



2 Stop the Infobright™ process by double-clicking *<foglight home> Infobright/Infobright-stop*.

3 Back up the *<foglight home>/Infobright/ib_data* directory.

2

SSAS SQL PI Repository Schema

This section provides information about the SSAS SQL PI repository. For more information, see the following topics:

About the SSAS SQL PI repository

SQL PI allows you see enterprise-level performance at a glance. You can determine the root-cause of performance deviations and identify changes to your SSAS environment quickly and easily. The repository allows you to save historical data for up to three years, and allows you to see the changes made over the time.

Connecting to the SSAS SQL PI repository

SQL PI repository is based on a PostgreSQL® database (http://www.postgresql.org). Any Postgres database administration and development utility, such as *pgAdmin* (http://www.pgadmin.org), is sufficient to connect to the repository. In order to connect to the repository, you need the following information:

- Repository host— determined during the initial installation, could be on the Foglight Management Server host.
- Repository port— default port **5029**
- Repository database — **msbi-GUID**
- Connection user and password — **postgres/postgres**

Your agent repository configuration can be found under the menu **Administration > Agents > Agent Status >** *(agent_name)*> **Edit Properties.** In the list of properties, search for the SQL PI properties:

- SQL PI Repository host name
- SQL PI Repository port
- SQL PI Repository database

The default user and password is **postgres**.

General tables

General information related to the repository is stored in:

- **pa_repository**. Repository Schema information.
- **ssas_instance_dim**. All monitored instances in the repository.
- **ssas_general_config**. Configuration used in the PI engine per monitored instance.

Performance Metric (Fact) tables

The **Fact** tables hold the OLAP cube of the monitored instance performance data. There are several categories that define the data that a Fact table holds, and (as result) the table name:

- **Aggregation Level**. The resolution to which the collected data is grouped.

  Table 33. Aggregation Level

Level	Description	Name
Instance	The entire monitored instance level	ssas_instance_..._fact_...
Unique combination	Top n unique combinations of dimensions that assemble the cube	ssas_unique_..._fact_...
Session	A more detailed grouping of the unique combinations with additional identifiers of the running session	ssas_sessions_..._fact_...

- **Data Type**. The type of performance metrics saved in the table.

  Table 34. Data Type

Type	Name
Performance metrics	ssas_{level}_stat_fact_...
Object activity	ssas_{level}_object_fact_...
Lock events	ssas_{level}_lock_fact_...
Windows Perfmon	ssas_{level}_perfmon_fact_...

- Retention. The granularity of the data and the period for which the data is saved (age), as derived from the retention policy.

  Table 35. Retention

Granularity	Age	Name
1 minute	6 hours	ssas_{level}_{type}_fact_1m_<YYYYMMDDHH>00 **NOTE:** The tables in the **1m** granularity level are partitioned, meaning that a whole old table is dropped instead of deleting data in the table.
15 minutes	3 days	ssas _{level}_{type}_fact_15m
1 hour	2 weeks	ssas _{level}_{type}_fact_1h
6 hours	30 days	ssas _{level}_{type}_fact_6h
1 day	90 days	ssas _{level}_{type}_fact_1d
1 week	2 years	ssas _{level}_{type}_fact_1w

  The suffix of the table indicates the starting time of the data in the table (GMT times), aligned to 6 hours (the age):

- <YYYYMMDD>0000 (between 00-06)
- <YYYYMMDD>0600 (between 06-12)
- <YYYYMMDD>1200 (between 12-18)
- <YYYYMMDD>1800 (between 18-24)

Dimension tables

The **Dimension** tables hold additional information to explain some of the dimensions in the **Fact** tables. Therefore, their values are in the form of IDs.

Table 36. Dimension tables

Dimension	Description	Name
Command	Holds the text of the command which matches the command hash column in the Fact tables.	ssas_command_dim_{suffix}

The suffix of the tables defines the granularity of the data stored in it:

- **_1m_<YYYYMMDDHH>00**. Holds data for six hours.
- **Empty**. Holds data permanently.

Change Tracking Data

For detailed information, see the following topics:

- Change Tracking Items
- Change Tracking Snapshots tables

Change Tracking Items

This table contains all the identified changes per type over time: *ssas_change_tracking_item*.

Change Tracking Snapshots tables

These tables hold the latest state of a specific type of data, to be compared in each cycle to the state in the monitored instance and identify changes.

Table 37. Change Tracking Snapshots tables

Type	Description	Name
Devices	The system devices in the monitored host	ssas_ct_devices_state
Disks	The system disks in the monitored host	ssas_ct_disks_state
Network interface	The system network interfaces of the monitored host	ssas_ct_network_interface_state
Schema	The schema objects of the monitored instance	ssas_ct_schema_state
Server properties	The properties of the monitored instance	ssas_ct_server_properties_state
Swap space allocation	The system space allocation in the monitored host	ssas_ct_resources_state

Table Data dictionary

Table 38. List of table names

Table Names
pa_repository
ssas_change_tracking_item
ssas_command_dim
ssas_command_dim_1m_YYYYMMHH0000
ssas_command_dim_1m_YYYYMMHH0600
ssas_command_dim_1m_YYYYMMHH1200
ssas_command_dim_1m_YYYYMMHH1800
ssas_ct_devices_state
ssas_ct_disks_state
ssas_ct_network_interface_state
ssas_ct_schema_state
ssas_ct_server_properties_state
ssas_ct_swap_space_allocation_state
ssas_general_config
ssas_instance_dim
ssas_instance_object_fact_15m
ssas_instance_object_fact_1d
ssas_instance_object_fact_1h
ssas_instance_object_fact_1m_YYYYMMHH0000
ssas_instance_object_fact_1m_YYYYMMHH0600
ssas_instance_object_fact_1m_YYYYMMHH1200
ssas_instance_object_fact_1m_YYYYMMHH1800
ssas_instance_object_fact_1w
ssas_instance_object_fact_6h
ssas_instance_perfmon_fact_15m
ssas_instance_perfmon_fact_1d
ssas_instance_perfmon_fact_1h
ssas_instance_perfmon_fact_1m_YYYYMMHH0000
ssas_instance_perfmon_fact_1m_YYYYMMHH0600
ssas_instance_perfmon_fact_1m_YYYYMMHH1200
ssas_instance_perfmon_fact_1m_YYYYMMHH1800
ssas_instance_perfmon_fact_1w
ssas_instance_perfmon_fact_6h
ssas_instance_stat_fact_15m
ssas_instance_stat_fact_1d
ssas_instance_stat_fact_1h
ssas_instance_stat_fact_1m_YYYYMMHH0000
ssas_instance_stat_fact_1m_YYYYMMHH0600
ssas_instance_stat_fact_1m_YYYYMMHH1200

Table 38. List of table names

Table Names
ssas_instance_stat_fact_1m_YYYYMMHH1800
ssas_instance_stat_fact_1w
ssas_instance_stat_fact_6h
ssas_sessions_lock_fact_15m
ssas_sessions_lock_fact_1d
ssas_sessions_lock_fact_1h
ssas_sessions_lock_fact_1m_YYYYMMHH0000
ssas_sessions_lock_fact_1m_YYYYMMHH0600
ssas_sessions_lock_fact_1m_YYYYMMHH1200
ssas_sessions_lock_fact_1m_YYYYMMHH1800
ssas_sessions_lock_fact_1w
ssas_sessions_lock_fact_6h
ssas_sessions_object_fact_15m
ssas_sessions_object_fact_1d
ssas_sessions_object_fact_1h
ssas_sessions_object_fact_1m_YYYYMMHH0000
ssas_sessions_object_fact_1m_YYYYMMHH0600
ssas_sessions_object_fact_1m_YYYYMMHH1200
ssas_sessions_object_fact_1m_YYYYMMHH1800
ssas_sessions_object_fact_1w
ssas_sessions_object_fact_6h
ssas_sessions_stat_fact_15m
ssas_sessions_stat_fact_1d
ssas_sessions_stat_fact_1h
ssas_sessions_stat_fact_1m_YYYYMMHH0000
ssas_sessions_stat_fact_1m_YYYYMMHH0600
ssas_sessions_stat_fact_1m_YYYYMMHH1200
ssas_sessions_stat_fact_1m_YYYYMMHH1800
ssas_sessions_stat_fact_1w
ssas_sessions_stat_fact_6h
ssas_unique_object_fact_15m
ssas_unique_object_fact_1d
ssas_unique_object_fact_1h
ssas_unique_object_fact_1m_YYYYMMHH0000
ssas_unique_object_fact_1m_YYYYMMHH0600
ssas_unique_object_fact_1m_YYYYMMHH1200
ssas_unique_object_fact_1m_YYYYMMHH1800
ssas_unique_object_fact_1w
ssas_unique_object_fact_6h
ssas_unique_stat_fact_15m
ssas_unique_stat_fact_1d
ssas_unique_stat_fact_1h

Table 38. List of table names

Table Names
ssas_unique_stat_fact_1m_YYYYMMHH0000
ssas_unique_stat_fact_1m_YYYYMMHH0600
ssas_unique_stat_fact_1m_YYYYMMHH1200
ssas_unique_stat_fact_1m_YYYYMMHH1800
ssas_unique_stat_fact_1w
ssas_unique_stat_fact_6h

For detailed information, see the following topics:

- pa_repository
- ssas_instance_dim
- ssas_general_config
- ssas_instance_stat_fact
- ssas_instance_object_fact
- ssas_instance_perfmon_fact
- ssas_unique_stat_fact
- ssas_unique_object_fact
- ssas_sessions_stat_fact
- ssas_sessions_object_fact
- ssas_sessions_lock_fact
- ssas_command_dim
- ssas_change_tracking_item
- ssas_ct_devices_state
- ssas_ct_disks_state
- ssas_ct_network_interface_state
- ssas_ct_schema_state
- ssas_ct_server_properties_state
- ssas_ct_resources_state

pa_repository

Table 39. pa_repository

Name	Data type	Not Null?	Primary Key?	Default	Comment
inserted_time	timestamp with time zone	No	No		
build_version	character varying(256)	No	No		
db_version	character varying(256)	No	No		
schema_version	character varying(256)	No	No		
is_in_upgrade	smallint	No	No		

ssas_instance_dim

Table 40. ssas_instance_dim

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
create_date	timestamp with time zone	No	No		
updated_date	timestamp with time zone	No	No		
instance_name	character varying(256)	No	No		
host	character varying(256)	No	No		
additional_info	character varying(16383)	No	No		
monitored	integer	No	No		
instance_version	character varying(256)	No	No		
spi_version	character varying(256)	No	No		
instance_configuration	character varying(16383)	No	No		

ssas_general_config

Table 41. ssas_general_config

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
property_name	character varying (256)	No	No		
config_value	character varying (256)	No	No		

ssas_instance_stat_fact

Table 42. ssas_instance_stat_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
active_sec	double precision	No	No		
elapsed_sec	double precision	No	No		
used_memory_kb	double precision	No	No		
reads	double precision	No	No		
writes	double precision	No	No		
read_kb	double precision	No	No		

Table 42. ssas_instance_stat_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
write_kb	double precision	No	No		
commands_executions	double precision	No	No		
cpu_time_sec	double precision	No	No		
io_wait_sec	double precision	No	No		
memory_wait_sec	double precision	No	No		
lock_wait_sec	double precision	No	No		
lock_inactive_wait_sec	double precision	No	No		
lock_read_wait_sec	double precision	No	No		
lock_write_wait_sec	double precision	No	No		
lock_commit_shared_wait_sec	double precision	No	No		
lock_commit_exclusive_wait_sec	double precision	No	No		
lock_commit_abort_wait_sec	double precision	No	No		
lock_commit_in_progress_wait_sec	double precision	No	No		
lock_invalid_wait_sec	double precision	No	No		
remote_wait_sec	double precision	No	No		
idle_wait_sec	double precision	No	No		

ssas_instance_object_fact

Table 43. ssas_instance_object_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
object_id	character varying(256)	No	No		
object_id_short_text	character varying(256)	No	No		
active_sec	double precision	No	No		
reads	double precision	No	No		
writes	double precision	No	No		
read_kb	double precision	No	No		
write_kb	double precision	No	No		
rows_scanned	double precision	No	No		
rows_returned	double precision	No	No		
cpu_time_sec	double precision	No	No		
io_wait_sec	double precision	No	No		
lock_wait_sec	double precision	No	No		
lock_inactive_wait_sec	double precision	No	No		
lock_read_wait_sec	double precision	No	No		

Table 43. ssas_instance_object_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
lock_write_wait_sec	double precision	No	No		
lock_commit_shared_wait_sec	double precision	No	No		
lock_commit_exclusive_wait_sec	double precision	No	No		
lock_commit_abort_wait_sec	double precision	No	No		
lock_commit_in_progress_wait_sec	double precision	No	No		
lock_invalid_wait_sec	double precision	No	No		
idle_wait_sec	double precision	No	No		

ssas_instance_perfmon_fact

Table 44. ssas_instance_perfmon_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
available_bytes	double precision	No	No		
cache_bytes	double precision	No	No		
committed_bytes	double precision	No	No		
system_processes	double precision	No	No		
system_threads	double precision	No	No		
events	double precision	No	No		
mutexes	double precision	No	No		
processes	double precision	No	No		
sections	double precision	No	No		
semaphores	double precision	No	No		
threads	double precision	No	No		
current_kb	double precision	No	No		
total_direct_hits	double precision	No	No		
total_misses	double precision	No	No		
total_lookups	double precision	No	No		
current_connections	double precision	No	No		
current_user_sessions	double precision	No	No		
total_requests	double precision	No	No		
total_failures	double precision	No	No		
logins_rate	double precision	No	No		
current_models_processing	double precision	No	No		

Table 44. ssas_instance_perfmon_fact

Name	Data type	Not Null?	Primary Key?	Default	Comment
concurrent_dm_queries	double precision	No	No		
total_queries	double precision	No	No		
total_rows	double precision	No	No		
current_locks	double precision	No	No		
current_lock_waits	double precision	No	No		
total_deadlocks_detected	double precision	No	No		
processing_pool_idle_io_job_threads	double precision	No	No		
processing_pool_busy_io_job_threads	double precision	No	No		
processing_pool_idle_total_threads	double precision	No	No		
processing_pool_busy_total_threads	double precision	No	No		
query_pool_idle_threads	double precision	No	No		
query_pool_busy_threads	double precision	No	No		
query_pool_job_queue_length	double precision	No	No		
cleaner_memory_kb	double precision	No	No		
cleaner_memory_nonshrinkable_kb	double precision	No	No		
cleaner_memory_shrinkable_kb	double precision	No	No		
dimension_index_hash_files	double precision	No	No		
dimension_property_files	double precision	No	No		
dimension_string_files	double precision	No	No		
fact_aggregation_files	double precision	No	No		
fact_data_files	double precision	No	No		
fact_string_files	double precision	No	No		
filestore_kb	double precision	No	No		
filestore_io_errors	double precision	No	No		
memory_limit_high_kb	double precision	No	No		
memory_limit_low_kb	double precision	No	No		
memory_usage_kb	double precision	No	No		
memory_size_bytes	double precision	No	No		
current_partitions	double precision	No	No		
total_partitions	double precision	No	No		
total_rows_read	double precision	No	No		
total_rows_written	double precision	No	No		
total_bytes_sent	double precision	No	No		
total_rows_sent	double precision	No	No		
total_queries_answered	double precision	No	No		
total_measure_group_queries	double precision	No	No		
total_dimension_queries	double precision	No	No		
queries_answered_rate	double precision	No	No		
rows_sent_rate	double precision	No	No		
number_of_calculation_covers	double precision	No	No		
number_of_evictions_of_evaluation_nodes	double precision	No	No		
total_cells_calculated	double precision	No	No		

ssas_unique_stat_fact

Table 45. ssas_unique_stat_fact

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
user_name	character varying(256)	No	No		
database_name	character varying(256)	No	No		
host	character varying(256)	No	No		
application	character varying(256)	No	No		
command_hash	bigint	No	No		
command_type	character varying(256)	No	No		
active_sec	double precision	No	No		
elapsed_sec	double precision	No	No		
used_memory_kb	double precision	No	No		
reads	double precision	No	No		
writes	double precision	No	No		
read_kb	double precision	No	No		
write_kb	double precision	No	No		
commands_executions	double precision	No	No		
cpu_time_sec	double precision	No	No		
io_wait_sec	double precision	No	No		
memory_wait_sec	double precision	No	No		
lock_wait_sec	double precision	No	No		
lock_inactive_wait_sec	double precision	No	No		
lock_read_wait_sec	double precision	No	No		
lock_write_wait_sec	double precision	No	No		
lock_commit_shared_wait_sec	double precision	No	No		
lock_commit_exclusive_wait_sec	double precision	No	No		
lock_commit_abort_wait_sec	double precision	No	No		
lock_commit_in_progress_wait_sec	double precision	No	No		
lock_invalid_wait_sec	double precision	No	No		
remote_wait_sec	double precision	No	No		
idle_wait_sec	double precision	No	No		

ssas_unique_object_fact

Table 46. ssas_unique_object_fact

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
user_name	character varying(256)	No	No		
database_name	character varying(256)	No	No		
host	character varying(256)	No	No		
application	character varying(256)	No	No		
command_hash	bigint	No	No		
command_type	character varying(256)	No	No		
object_id	character varying(256)	No	No		
object_id_short_text	character varying(256)	No	No		
active_sec	double precision	No	No		
reads	double precision	No	No		
writes	double precision	No	No		
read_kb	double precision	No	No		
write_kb	double precision	No	No		
rows_scanned	double precision	No	No		
rows_returned	double precision	No	No		
cpu_time_sec	double precision	No	No		
io_wait_sec	double precision	No	No		
lock_wait_sec	double precision	No	No		
lock_inactive_wait_sec	double precision	No	No		
lock_read_wait_sec	double precision	No	No		
lock_write_wait_sec	double precision	No	No		
lock_commit_shared_wait_sec	double precision	No	No		
lock_commit_exclusive_wait_sec	double precision	No	No		
lock_commit_abort_wait_sec	double precision	No	No		
lock_commit_in_progress_wait_sec	double precision	No	No		
lock_invalid_wait_sec	double precision	No	No		
idle_wait_sec	double precision	No	No		

ssas_sessions_stat_fact

Table 47. ssas_sessions_stat_fact

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
session_spid	integer	No	No		
user_name	character varying(256)	No	No		
database_name	character varying(256)	No	No		
host	character varying(256)	No	No		
application	character varying(256)	No	No		
command_hash	bigint	No	No		
command_type	character varying(256)	No	No		
active_sec	double precision	No	No		
elapsed_sec	double precision	No	No		
used_memory_kb	double precision	No	No		
reads	double precision	No	No		
writes	double precision	No	No		
read_kb	double precision	No	No		
write_kb	double precision	No	No		
commands_executions	double precision	No	No		
cpu_time_sec	double precision	No	No		
io_wait_sec	double precision	No	No		
memory_wait_sec	double precision	No	No		
lock_wait_sec	double precision	No	No		
lock_inactive_wait_sec	double precision	No	No		
lock_read_wait_sec	double precision	No	No		
lock_write_wait_sec	double precision	No	No		
lock_commit_shared_wait_sec	double precision	No	No		
lock_commit_exclusive_wait_sec	double precision	No	No		
lock_commit_abort_wait_sec	double precision	No	No		
lock_commit_in_progress_wait_sec	double precision	No	No		
lock_invalid_wait_sec	double precision	No	No		
remote_wait_sec	double precision	No	No		
idle_wait_sec	double precision	No	No		

ssas_sessions_object_fact

Table 48. ssas_sessions_object_fact

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
session_spid	integer	No	No		
user_name	character varying(256)	No	No		
database_name	character varying(256)	No	No		
host	character varying(256)	No	No		
application	character varying(256)	No	No		
command_hash	bigint	No	No		
command_type	character varying(256)	No	No		
object_id	character varying(256)	No	No		
object_id_short_text	character varying(256)	No	No		
active_sec	double precision	No	No		
reads	double precision	No	No		
writes	double precision	No	No		
read_kb	double precision	No	No		
write_kb	double precision	No	No		
rows_scanned	double precision	No	No		
rows_returned	double precision	No	No		
cpu_time_sec	double precision	No	No		
io_wait_sec	double precision	No	No		
lock_wait_sec	double precision	No	No		
lock_inactive_wait_sec	double precision	No	No		
lock_read_wait_sec	double precision	No	No		
lock_write_wait_sec	double precision	No	No		
lock_commit_shared_wait_sec	double precision	No	No		
lock_commit_exclusive_wait_sec	double precision	No	No		
lock_commit_abort_wait_sec	double precision	No	No		
lock_commit_in_progress_wait_sec	double precision	No	No		
lock_invalid_wait_sec	double precision	No	No		
idle_wait_sec	double precision	No	No		

ssas_sessions_lock_fact

Table 49. ssas_sessions_lock_fact

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
sample_starttime	timestamp with time zone	No	No		
sample_endtime	timestamp with time zone	No	No		
sample_duration	bigint	No	No		
session_spid	integer	No	No		
user_name	character varying(256)	No	No		
database_name	character varying(256)	No	No		
host	character varying(256)	No	No		
application	character varying(256)	No	No		
command_hash	bigint	No	No		
command_type	character varying(256)	No	No		
object_id	character varying(256)	No	No		
blck_session_spid	integer	No	No		
blck_user_name	character varying(256)	No	No		
blck_database_name	character varying(256)	No	No		
blck_host	character varying(256)	No	No		
blck_application	character varying(256)	No	No		
blck_command_hash	bigint	No	No		
blck_command_type	character varying(256)	No	No		
event_duration	double precision	No	No		

ssas_command_dim

Table 50. ssas_command_dim

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
command_hash	bigint	No	No		
command_text	character varying(16383)	No	No		
command_short_text	character varying(256)	No	No		

ssas_change_tracking_item

Table 51. ssas_change_tracking_item

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
category_main	character varying(16383)	No	No		
category	character varying(16383)	No	No		
change_type	character varying(16383)	No	No		
object_name_1	character varying(16383)	No	No		
object_name_2	character varying(16383)	No	No		
attribute	character varying(16383)	No	No		
new_value	character varying(16383)	No	No		
old_value	character varying(16383)	No	No		
change_datetime	timestamp with time zone	No	No		
change_by_user	character varying(16383)	No	No		
change_by_application	character varying(16383)	No	No		
change_by_server	character varying(16383)	No	No		

ssas_ct_devices_state

Table 52. ssas_ct_devices_state

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
deviceid	character varying(16383)	No	No		
deviceclass	character varying(16383)	No	No		
devicename	character varying(16383)	No	No		
driverversion	character varying(16383)	No	No		
entity_status	character varying(16383)	No	No		

ssas_ct_disks_state

Table 53. ssas_ct_disks_state

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
name	character varying(16383)	No	No		
caption	character varying(16383)	No	No		

ssas_ct_network_interface_state

Table 54. ssas_ct_network_interface_state

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
name	character varying(16383)	No	No		
caption	character varying(16383)	No	No		

ssas_ct_schema_state

Table 55. ssas_ct_schema_state

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
object_id	character varying(16383)	No	No		
name	character varying(16383)	No	No		
value	character varying(16383)	No	No		
type	character varying(16383)	No	No		

ssas_ct_server_properties_state

Table 56. ssas_ct_server_properties_state

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
name	character varying(16383)	No	No		
value	character varying(16383)	No	No		

ssas_ct_resources_state

Table 57. ssas_ct_resources_state

Name	Data type	Not Null?	Primary key?	Default	Comment
instance_key	smallint	No	No		
inserted_time	timestamp with time zone	No	No		
name	character varying(16383)	No	No		
allocatedbasesize	integer	No	No		

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