

Analyze SRM database 12h period

1 UNION requests on history tables (presumably srmwatch) are slow

Queries that took up the most time (N) ^

Rank	Total duration	Times executed	Avg. duration(s)	Query
1	8h22m32s	1074325	0.02	EXECUTE IMMEDIATE (PREPARE: COMMIT);
2	3h22m14s	27	47.60	EXECUTE IMMEDIATE (PREPARE: SELECT * FROM gsd_kreq_wsch_key WHERE job_id=1 UNION SELECT * FROM gsd_kreq_val_key_b WHERE job_id=1 ORDER BY amount_time); [Show details]
3	1h22m58s	21	243.51	EXECUTE IMMEDIATE (PREPARE: SELECT * FROM gsd_kreq_wsch_key WHERE job_id=1 UNION SELECT * FROM gsd_kreq_val_key_b WHERE job_id=1 ORDER BY amount_time); [Show example]
4	1h04m42s	284	11.32	EXECUTE IMMEDIATE (PREPARE: SELECT * FROM copy_req_queue WHERE job_id=0 UNION SELECT * FROM copy_req_queue_b WHERE job_id=0 ORDER BY trans_time); [Show details]
5	41m7s	170	14.62	EXECUTE IMMEDIATE (PREPARE: SELECT * FROM copy_req_queue WHERE job_id=0);

Requests on « copy » are much more efficient than « put » and « get ». All indexes seem OK in the database.

2 Automatic DELETE requests are slow

Every hour, SRM deletes all items older than 1 month in « XXXrequests » and « XXXfilerequests » tables. Note that « XXXrequests_b » and « XXXfilerequests_b » seem to be unused now.

19	3m52s	2	116.81	EXECUTE IMMEDIATE (PREPARE: DELETE FROM gsd_kreq_wsch WHERE CREATION TIME-LP TIME < 280); [Show example]
20	3m40s	1	290.51	EXECUTE IMMEDIATE (PREPARE: DELETE FROM gsd_kreq_wsch WHERE CREATION TIME-LP TIME < 1801302400);
21	3m32s	2	42.47	EXECUTE IMMEDIATE (PREPARE: DELETE FROM gsd_kreq_wsch WHERE CREATION TIME-LP TIME < 280); [Show example]
22	3m28s	1394	1.27	EXECUTE IMMEDIATE (PREPARE: INSERT INTO p_requests_products VALUES ('',')); [Show details]
23	3m1s	2	92.22	EXECUTE IMMEDIATE (PREPARE: DELETE FROM gsd_kreq_wsch WHERE CREATION TIME-LP TIME < 290); [Show details]
24	2m48s	2	81.77	EXECUTE IMMEDIATE (PREPARE: DELETE FROM copy_requests WHERE CREATION TIME-LP TIME < 280); [Show details]

3 UPDATE requests on « srmrequestcredentials »

First release of 1.7.0:

Queries that took up the most time [N] ^

Rank	Total duration	Times executed	Avg. duration (s)	Query
1	35h37m51s	20,743	4.46	EXECUTE IMMEDIATE PREPARE UPDATE srmrequestcredentials SET ID=0, CREATIONTIME=000, CREDENTIALNAME=, ROLE=NULL, NUMBEROFUSERS=0, DELEGATEDCREDENTIALS=NULL, CREDENTIALEXPIRATION=0 WHERE ID=; Show source
2	2h56m37s	2,750	3.50	EXECUTE IMMEDIATE PREPARE UPDATE srmrequestcredentials SET ID=0, CREATIONTIME=000, CREDENTIALNAME=, ROLE=NULL, NUMBEROFUSERS=0, DELEGATEDCREDENTIALS=, CREDENTIALEXPIRATION=000 WHERE ID=; Show source
3	1h24m58s	1,735	2.59	EXECUTE IMMEDIATE PREPARE COMMIT;
4	57m29s	951	2.58	EXECUTE IMMEDIATE PREPARE UPDATE srmrequestcredentials SET ID=0, CREATIONTIME=000, CREDENTIALNAME=, ROLE=NULL, NUMBEROFUSERS=0, DELEGATEDCREDENTIALS=, CREDENTIALEXPIRATION=000 WHERE ID=; Show source
5	33m48s	138	15.64	SELECT col, COUNT(*) FROM srmrequest GROUP BY col;
6	33m40s	267	2.58	EXECUTE IMMEDIATE PREPARE UPDATE srmrequestcredentials SET ID=0, CREATIONTIME=000, CREDENTIALNAME=, ROLE=NULL, NUMBEROFUSERS=0, DELEGATEDCREDENTIALS=NULL, CREDENTIALEXPIRATION=0 WHERE ID=; Show source

Latest patch 1.7.0-24:

41	1m28s	7	12.19	EXECUTE IMMEDIATE PREPARE UPDATE srmrequestcredentials SET ID=0, CREATIONTIME=000, CREDENTIALNAME=, ROLE=NULL, NUMBEROFUSERS=0, DELEGATEDCREDENTIALS=, CREDENTIALEXPIRATION=000 WHERE ID=; Show source
21	1m17s	16,141	2.59	EXECUTE IMMEDIATE PREPARE INSERT srmrequestcredentials SET ID=0, CREATIONTIME=000, CREDENTIALNAME=, ROLE=NULL, NUMBEROFUSERS=0, DELEGATEDCREDENTIALS=, CREDENTIALEXPIRATION=000 WHERE ID=; Show source