Category	Item	Remark
General	Define the target performance	
	Check the pattern of performance	
	Check recent change	
	Reproduce issue in testing environment	
Hardware	Check CPU and RAM usage	Consider to add CPU and RAM to improve
	Check event log	
	Check Harddisk Space	
	Restart Servers	
	Tune the SAN disk from SAS to SSD for	
	improving batch process performance	
Client	Check the region of impact users	
	Check CPU and RAM usage	
	Check Network between clients and servers	SpeedTest
	Arrange faster PCs to check again	
Database	Data growth	
		STATS_DATE(id, indid) as 'stats_date', rowmodctr as
		modified_rows
		FROM sys.sysindexes
	Check the statistics on the tables	WHERE id IN (SELECT object_id FROM sys.tables)
		run script -> SELECT file_id, name, type_desc, physical_name,
		size, max_size
	Check database usage	FROM sys.database_files;
	check rebulid index and re-org table	
	Check the presence / absence of indexes	Refer to above script
	Housekeep data	
		Review the Execution Plan and expected cardinality (number of
	Run Execution Plan	rows) in each step of the Execution Plan.
	Rebuild Index and re-org tables	
	Run stat	

		Run scirpt
		SELECT [s_tst].[session_id], [s_es].[login_name] AS [Login
		Name], DB_NAME (s_tdt.database_id) AS [Database],
		[s_tdt].[database_transaction_begin_time] AS [Begin Time],
		[s_tdt].[database_transaction_log_bytes_used] AS [Log Bytes],
		[s_tdt].[database_transaction_log_bytes_reserved] AS [Log
		Rsvd], [s_est].text AS [Last T-SQL Text],
		[s_eqp].[query_plan] AS [Last Plan]
		FROM sys.dm_tran_database_transactions [s_tdt]
		JOIN sys.dm_tran_session_transactions [s_tst]
		ON [s_tst].[transaction_id] = [s_tdt].[transaction_id]
		JOIN sys.[dm_exec_sessions] [s_es]
		ON [s_es].[session_id] = [s_tst].[session_id]
		JOIN sys.dm_exec_connections [s_ec]
		ON [s_ec].[session_id] = [s_tst].[session_id]
		LEFT OUTER JOIN sys.dm_exec_requests [s_er]
		ON [s_er].[session_id] = [s_tst].[session_id]
		CROSS APPLY sys.dm_exec_sql_text
		([s_ec].[most_recent_sql_handle]) AS [s_est]
		OUTER APPLY sys.dm_exec_query_plan ([s_er].[plan_handle])
		AS [s_eqp]
		ORDER BY [Begin Time] ASC;
		GO
	Database blocking in the MS SQL	
		https://www.c-sharpcorner.com/article/temporary-tables-and-
	Temporary Table and Table Variable in SQL	table-variables-in-sql/
Application	Check Application log	
	Use monitoring tools (e.g. Application Insight,	
	Restart Services	
	Add debug log in application	