

Governor Limit exception due to Rollup Summary Field Change



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Rollup Summary Field(RSF) gives an easy way to get values from related records when the two objects are related via Master - detail relationship. We can perform different types of calculations with a roll-up summary field such as count, sum, minimum value, or maximum value of a field in the detail records.

I am sharing one of the platform behaviour noticed with Rollup Summary field calculation. When RSF definition is changed with an aggregated Field, Filter and Type, It will trigger Field Recalculation.

As an admin, you have two options on field calculations.

- “Automatic calculation” option is to let salesforce decide the best time to run field Calculation.
- “Force a mass recalculation” option is to initiate the field calculation immediately.

The screenshot shows the 'Roll-Up Summary Options' configuration page in Salesforce. It includes sections for 'Data Type' (Roll-Up Summary), 'Calculation Options' (Automatic calculation (Recommended) and Force a mass recalculation of this field), 'Select Object to Summarize' (Master Object: Account, Summarized Object: Opportunities), 'Select Roll-Up Type' (COUNT, SUM, MIN, MAX with a 'Field to Aggregate' dropdown set to 'Quantity'), and 'Filter Criteria' (All records should be included in the calculation and Only records meeting certain criteria should be included in the calculation). The 'Filter Criteria' section shows a table with columns for Field, Operator, and Value, with the first row set to 'Stage equals Closed Won' and subsequent rows set to 'None--'. A note at the bottom states: 'For checkbox fields, enter a value of True for checked or False for not checked. For picklist fields, enter the master picklist field value in your corporate language.'

Whenever the field definition is changed, Depends on the calculation option selected, A background job with Type 'Summary Field Recalculation' will be started. This job can take a minute to a week depends on the volumes of data you have the organizations.

Action	Submitted Date	Job Type	Job Sub Type	Status	Percent Complete	Errors	Submitted By	Completion Date
	02/01/2018 16:35	Sharing Rule Recalculation	Account - Criteria-Based Sharing Rule	Completed	100%	<input type="checkbox"/>	Chandran_Maril Ganesan	02/01/2018 16:35
	02/01/2018 16:35	Sharing Rule Recalculation	Account - Owner Sharing Rule	Completed	100%	<input type="checkbox"/>	Chandran_Maril Ganesan	02/01/2018 16:35
	02/01/2018 16:35	Sharing Rule Recalculation	Account - Access Cleanup	Completed	100%	<input type="checkbox"/>	Chandran_Maril Ganesan	02/01/2018 16:35

In normal scenario, When a child record is edited where aggregated field value is changing, This invokes a DML operation on parent record where the RSF exists. But when the Sharing calculation job is running, Any DML on Child **whether Aggregate field is changing or not**, will invoke the DML on Parent records.

The problem here is that when your org is already running close to governor limits such SOQL, CPU time limits, This additional DML will make the transaction hit the governor limits.

This gives one more reason why Admins need to plan the RSF definition changes only during non business hours.