

# MSSQL 2017 And Up Script

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sp_configure clr_enabled, 1 RECONFIGURE;

IF NOT EXISTS ( SELECT * FROM sys.schemas WHERE name = N'ATSCALEUDAF' ) EXEC('CREATE SCHEMA ATSCALEUDAF');

DROP AGGREGATE IF EXISTS ATSCALEUDAF.hll_aggregate_estimate

DROP AGGREGATE IF EXISTS ATSCALEUDAF.hll_aggregate

DROP AGGREGATE IF EXISTS ATSCALEUDAF.hll_aggregate_merge

DROP AGGREGATE IF EXISTS ATSCALEUDAF.hll_estimate

DROP AGGREGATE IF EXISTS ATSCALEUDAF.quantile_sketch

DROP AGGREGATE IF EXISTS ATSCALEUDAF.quantile_sketch_estimate

DROP AGGREGATE IF EXISTS ATSCALEUDAF.quantile_sketch_merge

DROP AGGREGATE IF EXISTS ATSCALEUDAF.quantile_estimate

DROP FUNCTION IF EXISTS ATSCALEUDAF.atscale_honeybee_version

DROP FUNCTION IF EXISTS ATSCALEUDAF.quantileFromSketch

DROP ASSEMBLY IF EXISTS AtScaleHLLFunctions

EXEC sys.sp_add_trusted_assembly 0x{DLLSHA512HASH}

CREATE ASSEMBLY AtScaleHLLFunctions from {Honeybee_dll_location}/{Honeybee_dll_name}

CREATE AGGREGATE ATSCALEUDAF.hll_aggregate_estimate (@value nvarchar(max)) RETURNS bigint EXTERNAL NAME
AtScaleHLLFunctions.[Com.Atscale.Honeybee.Mssql.HyperLogLogAggregateEstimateUDA]

CREATE AGGREGATE ATSCALEUDAF.hll_aggregate (@value sql_variant) RETURNS nvarchar(max) EXTERNAL NAME
AtScaleHLLFunctions.[Com.Atscale.Honeybee.Mssql.HyperLogLogAggregateUDA]

CREATE AGGREGATE ATSCALEUDAF.hll_aggregate_merge (@value nvarchar(max)) RETURNS nvarchar(max) EXTERNAL
NAME AtScaleHLLFunctions.[Com.Atscale.Honeybee.Mssql.HyperLogLogAggregateMergeUDA]

CREATE AGGREGATE ATSCALEUDAF.hll_estimate (@value sql_variant) RETURNS bigint EXTERNAL NAME
AtScaleHLLFunctions.[Com.Atscale.Honeybee.Mssql.HyperLogLogEstimateUDA]

CREATE AGGREGATE ATSCALEUDAF.quantile_sketch_estimate (@value nvarchar(max), @q float) RETURNS float
EXTERNAL NAME AtScaleHLLFunctions.[Com.Atscale.Honeybee.Mssql.QuantileAggregateEstimateUDA]

CREATE AGGREGATE ATSCALEUDAF.quantile_sketch_merge (@value nvarchar(max)) RETURNS nvarchar(max) EXTERNAL
NAME AtScaleHLLFunctions.[Com.Atscale.Honeybee.Mssql.QuantileAggregateMergeUDA]

CREATE AGGREGATE ATSCALEUDAF.quantile_sketch (@o float, @cf int) RETURNS nvarchar(max) EXTERNAL NAME
AtScaleHLLFunctions.[Com.Atscale.Honeybee.Mssql.QuantileAggregateUDA]

CREATE AGGREGATE ATSCALEUDAF.quantile_estimate (@o float, @q float, @cf int) RETURNS float EXTERNAL NAME
AtScaleHLLFunctions.[Com.Atscale.Honeybee.Mssql.QuantileEstimateUDA]

GRANT EXECUTE ON ATSCALEUDAF.hll_estimate to PUBLIC
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