

# MSSQL 2016 Script

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```
sp_configure clr_enabled, 1 RECONFIGURE;
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```
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
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DROP FUNCTION IF EXISTS ATSCALEUDAF.quantileFromSketch
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```
DROP ASSEMBLY IF EXISTS AtScaleHLLFunctions
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```
CREATE ASSEMBLY AtScaleHLLFunctions from {Honeybee_dll_location}/{Honeybee_dll_name} with PERMISSION_SET = SAFE
```

```
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
```