METRIC	DEFINITION	COMME	INTO					
	DEFINITION	COMME	CIVIO					
(Common metrics)								
Queryld	Unique Identifier for the executed query							
Operator	operator responsible for performing specific tasks within the query execution. E.g: SinkOperator, LogicalValueOperator, PartInMemoryAggregation	onOperator,						
Operator_id	Identifier for each operator within the execution plan.							
planType	type of planner used (E.g: volcano)							
Thread_duration_max	maximum duration taken amongst all threads to perform a specific operation operation.							
Cost_percent_str	cost percentage represented as string.							
inputRowsPerThread_0_50_75_90_100	Array of 5 values, which shows us how many number of rows are input per thread at different percentiles(wrt how much data is read)							
row_count_in/out	number of rows entering/exiting the operator.							
Partitioned	boolean for whether partitions happened for data or not							
Parallelism	the degree of parallelism employed in executing a specific operator - i.e; we perform certain operation parallelly on different threads at a time ge	enerally on diff	ferent files of da	ata to increase th	e speed/decrea	se the time of exec	ution of particular	operation.
Max_memory	maximum memory used while performing certain operation							
num_chunks_in/out:	number of chunks taken in or generated out for an operator							
thread_Duration_0_50_75_90_100	provides information about thread execution duration at different percentiles(wrt how much data is read)							
Cost_percent	percentage of total time spent on performing certain operation							
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(Operator specific metrics)								
Total_query_time	total time taken for query execution.							
Was_distributed	Boolean indicating if the query execution/data in database was distributed across multiple systems.							
table_name	name of table on which operation is done							
Stats time	time recorded for gathering all stats.							
totalClientQueryTime								
TotalParquetReadingTime	total time taken to read the parquet files in db (if parallelism is there it is collective time of parquet reading of all threads)							
PartitionPruningDurationMs	Duration (in milliseconds) for partition pruning (partition definition is down)(pruning - decision of removal/skipping unwanted partitions and select	ting wanted p	artitions ready t	o read)				
executionQueueingTime	Time taken to queue the tasks in order for execution							
ReadIOTime	Duration spent on IO operations to read data(IO - to disk)							
totalBytes	total size of data of output							
fileListingDurationInMs	duration for listing of what files to read							
Query_max_memory	maximum of all max_memorys used for query for all operators							
Queue_blocked_time	time for which queue is blocked with tasks for execution(in % and ms)							
TotalTablescanFilteringTime	total time taken for table scan filtering (if parallelism is there it is collective time of all threads)							
Parsing_time	total time taken for parsing, planning and giving out the plan							
SubmitTasksDurationMs	total time taken for coordinating executor to submit/assign tasks to other executors							
totalOpenDuration								
skipped_pages/skipped_row_groups:	count of pages/rows_groups that are skipped while reading(parquet)							
File_name_max_read_time	name of file which took maximum time for reading							
Parquet_task_cost_percent	cost percent associated specifically with parquet reading							
Seek_io_time/count	time spent on IO seeks and number of IO seeks (seek is moving the header/pointer(points to top of chunk/column of rowgroup in parquet) to other	ner chunck's to	op to skip the re	eading of unnece	ssary chunk)			
read_io_bytes/count	number of IO bytes read and read_IO count							
taskInitializationDuration	max time taken to start the task on all threads(parallelism)							
Tasks	number of tasks to be executed							
Partitions	number of partitions used (partitions are made on large datasets so that to ignore unnecessary reading of some files)							
Files	number of files processed							
cacheHlts	we store data in cache in order to ignore unnecessary loading of same data from s3. if we run the query which used same data, it checks in cach	ne for reading	, if it is matched	it is considered	as cacheHit.			
Stream_close_time	close time of stream(pipeline) from s3 to engine							
Page_filter_creation_time_max	maximum time for filtering pages							
Open_time_percent	percentage of time spent in open state							
readColumnChunkStreamsDuration	time taken to read column chunks							
fileReaderOpenTime	total duration for which file reading is happen							
task_rowsInCount_0_50_75_90_100	count of rows that are processed per task across various percentiles							
Total_row_groups	total number of row_groups are invovled							
pageReadFromChunkDuration	duration of reading of pages from chunks							
Read_io_time_percent	percentage of time spent in reading from IO(disk) from total_query_time							
totalRowGroupReadTimeMillis	time taken to read all involved row_groups							
totalRowGroupFilteringTime	time taken to filter all involved row_groups							
filtering_cost_percent	percentage of time spent on filtering							
InMemoryAggregationOperator_max	(in view of parallelism) max time taken among all threads to do aggregation operation individually							

SinkOperator_max	(in view of parallelism) max time taken among all threads to do sink operation individually				
TableScanOperator_max	(in view of parallelism) max time taken among all threads to do table scan operation individually				
PartInMemoryAggregationOperator_max	(in view of parallelism) max time taken among all threads to do aggregation operation individually				