

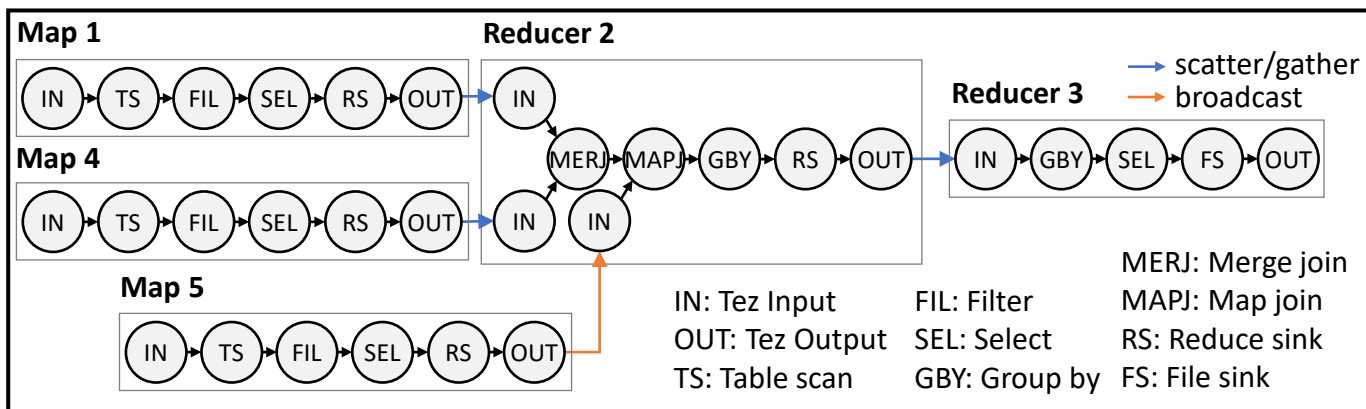
```

SELECT sum(lo_revenue) AS lo_revenue, d_year, p_brand1
FROM lineorder, dates, part
WHERE lo_orderdate = d_datekey
      AND lo_partkey = p_partkey AND p_category = 'MFGR#12'
GROUP BY d_year, p_brand1;

```

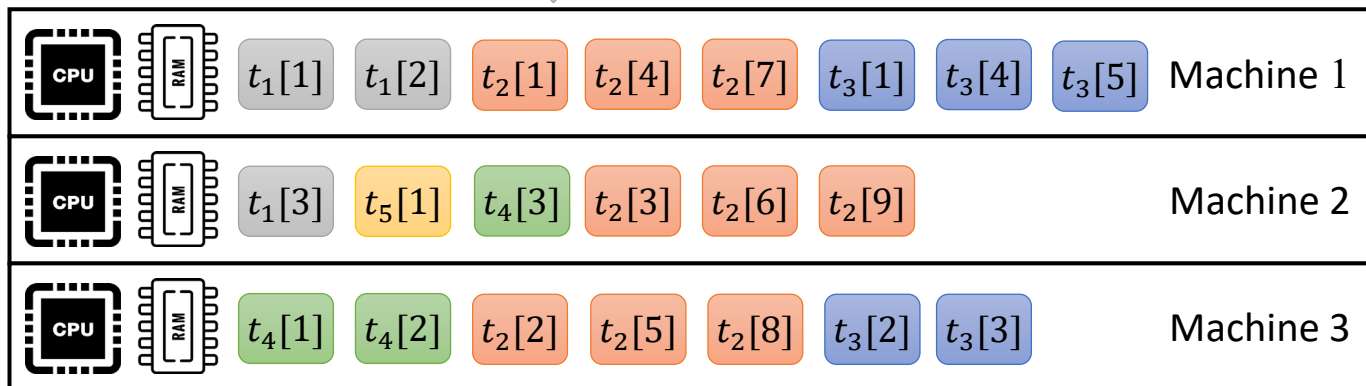
(a) SQL Query

Query Optimizer / Tez Compiler



(b) Job DAG

Resource Scheduler Yarn



(c) Scheduling and executing tasks of each job