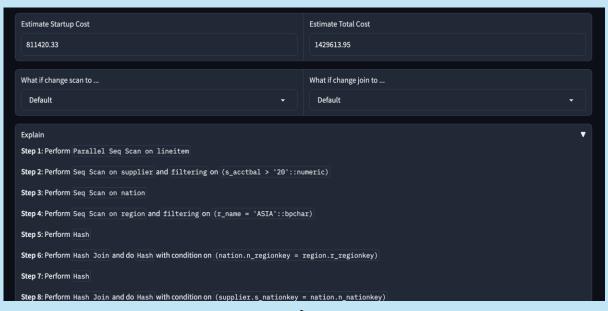
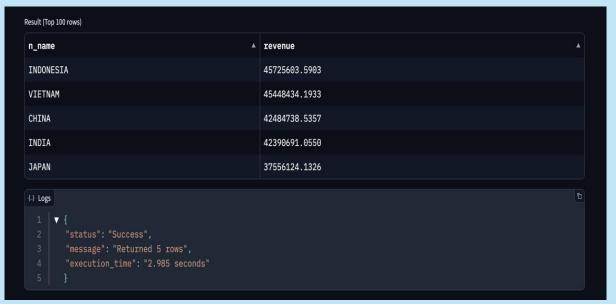


<> C	Ø Query Plan  W Query Plan		
1	SELECT		
2	n_name,		
3	SUM(1_extendedprice * (1 - 1_discount)) AS revenue		lacksquare
4	FROM		
5	customer,		
6	orders,		
7	lineitem,		$\gamma_M$
8	supplier,		<b>Y</b>
9	nation,		
10	region		
11	WHERE		
12	c_custkey = o_custkey		
13	AND 1_orderkey = o_orderkey		<b>—</b>
14	AND 1_suppkey = s_suppkey		
15	AND c_nationkey = s_nationkey		
16	AND s_nationkey = n_nationkey		
17	AND n_regionkey = r_regionkey		$\bowtie_N$
18	AND r_name = 'ASIA'		
19	AND o_orderdate >= '1994-01-01'		$\bowtie_H$
20	AND o_orderdate < '1995-01-01'		
21	AND c_acctbal > 10		
22	AND s_acctbal > 20		$\sigma$
23	GROUP BY		
24	n_name		
25 26	ORDER BY		
26	revenue DESC;		
			$\sigma$ $H$
			T T
			$\square$
			TH H

a)



b)



(

**d**)