

PLAN_TABLE_OUTPUT

Plan hash value: 1675987581

Oracle SQL Performance Analysis - Q3 2023										
Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time	TQ	IN-OUT	PQ Distrib	
0	SELECT STATEMENT		1	14	6 (17)	00:00:01				
1	PX COORDINATOR									
2	PX SEND QC (RANDOM)	:TQ30001	1	14	1 (0)	00:00:01	Q3,01	P->S	QC (RAND)	
3	TABLE ACCESS BY INDEX ROWID	REGIONS	1	14	1 (0)	00:00:01	Q3,01	PCWP		
4	BUFFER SORT						Q3,01	PCWC		
5	PX RECEIVE		1		0 (0)	00:00:01	Q3,01	PCWP		
6	PX SEND HASH (BLOCK ADDRESS)	:TQ30000	1		0 (0)	00:00:01		S->P	HASH (BLOCK)	
* 7	INDEX UNIQUE SCAN	REG_ID_PK	1		0 (0)	00:00:01				
8	PX COORDINATOR									
9	PX SEND QC (RANDOM)	:TQ20003	1	22	5 (20)	00:00:01	Q2,03	P->S	QC (RAND)	
* 10	FILTER						Q2,03	PCWC		
11	HASH GROUP BY		1	22	5 (20)	00:00:01	Q2,03	PCWP		
12	PX RECEIVE		1	22	5 (20)	00:00:01	Q2,03	PCWP		
13	PX SEND HASH	:TQ20002	1	22	5 (20)	00:00:01	Q2,02	P->P	HASH	
14	HASH GROUP BY		1	22	5 (20)	00:00:01	Q2,02	PCWP		
15	NESTED LOOPS		106	2332	4 (0)	00:00:01	Q2,02	PCWP		
* 16	HASH JOIN		27	513	4 (0)	00:00:01	Q2,02	PCWP		
17	PX RECEIVE		23	276	2 (0)	00:00:01	Q2,02	PCWP		
18	PX SEND HYBRID HASH	:TQ20000	23	276	2 (0)	00:00:01	Q2,00	P->P	HYBRID HASH	
19	STATISTICS COLLECTOR						Q2,00	PCWC		
20	NESTED LOOPS		23	276	2 (0)	00:00:01	Q2,00	PCWP		
21	PX BLOCK ITERATOR						Q2,00	PCWC		
22	TABLE ACCESS FULL	LOCATIONS	23	138	2 (0)	00:00:01	Q2,00	PCWP		
* 23	INDEX UNIQUE SCAN	COUNTRY_C_ID_PK	1	6	0 (0)	00:00:01	Q2,00	PCWP		
24	PX RECEIVE		27	189	2 (0)	00:00:01	Q2,02	PCWP		
25	PX SEND HYBRID HASH (SKEW)	:TQ20001	27	189	2 (0)	00:00:01	Q2,01	P->P	HYBRID HASH	
26	PX BLOCK ITERATOR		27	189	2 (0)	00:00:01	Q2,01	PCWC		
27	TABLE ACCESS FULL	DEPARTMENTS	27	189	2 (0)	00:00:01	Q2,01	PCWP		
* 28	INDEX RANGE SCAN	EMP_DEPARTMENT_IX	4	12	0 (0)	00:00:01	Q2,02	PCWP		
29	SORT AGGREGATE		1	13						
30	PX COORDINATOR									
31	PX SEND QC (RANDOM)	:TQ10003	1	13			Q1,03	P->S	QC (RAND)	
32	SORT AGGREGATE		1	13			Q1,03	PCWP		
33	VIEW		4	52	5 (20)	00:00:01	Q1,03	PCWP		
34	SORT GROUP BY		4	52	5 (20)	00:00:01	Q1,03	PCWP		
35	PX RECEIVE		4	52	5 (20)	00:00:01	Q1,03	PCWP		
36	PX SEND HASH	:TQ10002	4	52	5 (20)	00:00:01	Q1,02	P->P	HASH	
37	SORT GROUP BY		4	52	5 (20)	00:00:01	Q1,02	PCWP		
38	NESTED LOOPS		106	1378	4 (0)	00:00:01	Q1,02	PCWP		
39	VIEW	VW_GBF_32	27	270	4 (0)	00:00:01	Q1,02	PCWP		
* 40	HASH JOIN		27	513	4 (0)	00:00:01	Q1,02	PCWP		
41	PX RECEIVE		23	276	2 (0)	00:00:01	Q1,02	PCWP		
42	PX SEND HYBRID HASH	:TQ10000	23	276	2 (0)	00:00:01	Q1,00	P->P	HYBRID HASH	
43	NESTED LOOPS		23	276	2 (0)	00:00:01	Q1,00	PCWP		
44	PX BLOCK ITERATOR						Q1,00	PCWC		
45	TABLE ACCESS FULL	LOCATIONS	23	138	2 (0)	00:00:01	Q1,00	PCWP		
* 46	INDEX UNIQUE SCAN	COUNTRY_C_ID_PK	1	6	0 (0)	00:00:01	Q1,00	PCWP		
47	PX RECEIVE		27	189	2 (0)	00:00:01	Q1,02	PCWP		
48	PX SEND HYBRID HASH (SKEW)	:TQ10001	27	189	2 (0)	00:00:01	Q1,01	P->P	HYBRID HASH	
49	PX BLOCK ITERATOR		27	189	2 (0)	00:00:01	Q1,01	PCWC		
50	TABLE ACCESS FULL	DEPARTMENTS	27	189	2 (0)	00:00:01	Q1,01	PCWP		
* 51	INDEX RANGE SCAN	EMP_DEPARTMENT_IX	4	12	0 (0)	00:00:01	Q1,02	PCWP		

Predicate Information (identified by operation id):

7 -	access("REGION"."REGION_ID"= (SELECT "COUN"."REGION_ID" FROM "LOCATIONS" "LOC","COUNTRIES" "COUN","DEPARTMENTS" "DEPAR","EMPLOYEES" "EMPL" WHERE "EMPL"."DEPARTMENT_ID"="DEPAR"."DEPARTMENT_ID" AND "DEPAR"."LOCATION_ID"="LOC"."LOCATION_ID" AND "LOC"."COUNTRY_ID"="COUN"."COUNTRY_ID" GROUP BY "COUN"."REGION_ID" HAVING COUNT()= (SELECT MAX() FROM (SELECT SUM() "TOTAL_REGION"... "EMPLOYEES" "EMPL", (SELECT "DEPAR"."DEPARTMENT_ID" "ITEM_1",1 "ITEM_2","COUN"."REGION_ID" "ITEM_3" FROM "DEPARTMENTS" "DEPAR","COU... "COUN","LOCATIONS" "LOC" WHERE "LOC"."COUNTRY_ID"="COUN"."COUNTRY_ID" AND "DEPAR"."LOCATION_ID"="LOC"."LOCATION_ID") "VW_GBF_32" WH... "EMPL"."DEPARTMENT_ID"="ITEM_1" GROUP BY "ITEM_3") "EMPLEADO")))
10 -	filter(COUNT()= (SELECT MAX() FROM (SELECT SUM() "TOTAL_REGION" FROM "EMPLOYEES" "EMPL", (SELECT "DEPAR"."DEPARTMENT_ID" "ITEM_1",1 "ITEM_2","COUN"."REGION_ID" "ITEM_3" FROM "DEPARTMENTS" "DEPAR","COUNTRIES" "COUN","LOCATIONS" "LOC" WHERE "LOC"."COUNTRY ID"="COUN"."COUNTRY ID" AND "DEPAR"."LOCATION ID"="LOC"."LOCATION ID") "VW GBF 32" WHERE "EMPL"."DEPARTMENT ID"="ITE...

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GROUP BY "ITEM_3") "EMPLEADO"))

16 - access("DEPAR"."LOCATION_ID"="LOC"."LOCATION_ID")

23 - access("LOC"."COUNTRY_ID"="COUN"."COUNTRY_ID")

28 - access("EMPL"."DEPARTMENT_ID"="DEPAR"."DEPARTMENT_ID")

40 - access("DEPAR"."LOCATION_ID"="LOC"."LOCATION_ID")

46 - access("LOC"."COUNTRY_ID"="COUN"."COUNTRY_ID")

51 - access("EMPL"."DEPARTMENT_ID"="ITEM_1")

Note

- Degree of Parallelism is 3 because of hint