Lab 8

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Section 1

5)

2 OPERATION	2 OPTIONS	B OBJECT_NODE	B OBJECT_OWNER	B OBJECT_NAME	B OBJECT_ALIAS	B OBJECT_INSTANCE
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	C	C@SEL\$1	3.
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	А	A@SEL\$1	1
TABLE ACCESS	FULL	(null)	SYSTEM	В	B@SEL\$1	2
SELECT STATEMENT	(nu11)	(nu11)	(null)	(nu11)	(null)	(null)

6)

4 and 5 produce the same plan

8)

OPERATION	2 OPTIONS	B OBJECT_NODE	B OBJECT_OWNER	B OBJECT_NAME	OBJECT_ALIAS	B OBJECT_INSTANCE
SELECT STATEMENT	(null)	(null)	(null)	(null)	(null)	(null)
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	C	C@SEL\$1	3
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	A	A@SEL\$1	1
TABLE ACCESS	FULL	(null)	SYSTEM	В	B@SEL\$1	2

9)

7 and 8 produce the same plan

11)

2 OPERATION	2 OPTIONS	B OBJECT_NODE	B OBJECT_OWNER	B OBJECT_NAME	OBJECT_ALIAS	B OBJECT_INSTANCE
SELECT STATEMENT	(null)	(null)	(null)	(null)	(null)	(null)
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	C	C@SEL\$1	3
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	А	A@SEL\$1	1
TABLE ACCESS	FULL	(null)	SYSTEM	В	B@SEL\$1	2

12)

10 and 11 produce the same plan

14)

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2 OPERATION	2 OPTIONS	OBJECT_NODE	B OBJECT_OWNER	OBJECT_NAME	OBJECT_ALIAS	OBJECT_INSTANCE
SELECT STATEMENT	(null)	(null)	(null)	(null)	(null)	(null)
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	C	C@SEL\$1	3.
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	Α	A@SEL\$1	1
TABLE ACCESS	FULL	(null)	SYSTEM	В	B@SEL\$1	2.

15)

13 and 14 produce the same plan

Section 2

16)

5	2 OPERATION	OPTIONS	B OBJECT_NODE	B OBJECT_OWNER	B OBJECT_NAME	DBJECT_ALIAS	OBJECT_INSTANCE	OBJECT_TYPE	2 OPTIMIZER
1	SELECT STATEMENT	(null)	(null)	(null)	(null)	(null)	(null)	(null)	ALL_R0WS
2	HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)
3	TABLE ACCESS	FULL	(null)	SYSTEM	C	C@SEL\$1	3	TABLE	(null)
4	HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)
5	TABLE ACCESS	FULL	(null)	SYSTEM	A	A@SEL\$1	1	TABLE	(null)
6	TABLE ACCESS	FULL	(null)	SYSTEM	В	B@SEL\$1	2	TABLE	(null)

17)

5	2 OPERATION	2 OPTIONS	OBJECT_NODE	B OBJECT_OWNER	OBJECT_NAME	OBJECT_ALIAS	OBJECT_INSTANCE	OBJECT_TYPE	OPTIMIZER SEARCH_COI
1	SELECT STATEMENT	(null)	(null)	(null)	(null)	(null)	(null)	(null)	ALL_ROWS (
2	HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null) (
3	TABLE ACCESS	FULL	(null)	SYSTEM	C	C@SEL\$1	3	TABLE	(null) (
4	HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null) (
5	TABLE ACCESS	FULL	(null)	SYSTEM	A	A@SEL\$1	1	TABLE	(null) (
6	TABLE ACCESS	FULL	(null)	SYSTEM	В	B@SEL\$1	2	TABLE	(null) (

18)

2 OPERATION	OPTIONS	B OBJECT_NODE	B OBJECT_OWNER	B OBJECT_NAME	B OBJECT_ALIAS	OBJECT_INSTANCE	2 OBJECT_TYPE	2 OPTIMIZER 2	SEARCH_COI
SELECT STATEMENT	(null)	(null)	(null)	(null)	(null)	(null)	(null)	ALL_R0WS	(**
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(
TABLE ACCESS	FULL	(null)	SYSTEM	C	C@SEL\$1	3	TABLE	(null)	(
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(
TABLE ACCESS	FULL	(null)	SYSTEM	A	A@SEL\$1	1	TABLE	(null)	(
TABLE ACCESS	FULL	(null)	SYSTEM	В	B@SEL\$1	2	TABLE	(null)	(

19)

2 OPERATION	2 OPTIONS	2 OBJECT_NODE	B OBJECT_OWNER	○ BJECT_NAME	2 OBJECT_ALIAS	B OBJECT_INSTANCE	② OBJECT_TYPE	2 OPTIMIZER 2 SEARCH_CO
SELECT STATEMENT	(null)	(null)	(null)	(null)	(null)	(null)	(null)	ALL_R0WS
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	C	C@SEL\$1	3	TABLE	(null)
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	A	A@SEL\$1	1	TABLE	(null)
TABLE ACCESS	FULL	(null)	SYSTEM	В	B@SEL\$1	2	TABLE	(null)

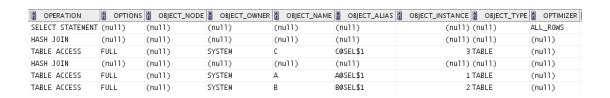
Section 3

20)

2 OPERATION	2 OPTIONS	B OBJECT_NODE	B OBJECT_OWNER	B OBJECT_NAME	OBJECT_ALIAS	OBJECT_INSTANCE	2 OBJECT_TYPE	2 OPTIMIZER	SEARCH_C(
SELECT STATEMENT	(null)	(null)	(null)	(null)	(null)	(null)	(null)	ALL_R0WS	^
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)	
TABLE ACCESS	FULL	(null)	SYSTEM	C	C@SEL\$1	3	TABLE	(null)	
HASH JOIN	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)	
TABLE ACCESS	FULL	(null)	SYSTEM	A	A@SEL\$1	1	TABLE	(null)	
TABLE ACCESS	FULL	(null)	SYSTEM	В	B@SEL\$1	2	TABLE	(null)	

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21)



22)20 and 21 produce the same plan