2023/05/08 12:08 1/9 Oracle HINT

Oracle HINT

```
{SELECT | INSERT | UPDATE | DELETE} /*+ hint [text] [hint [text]] ... */
SQL 가 SQL .
```

Optimization Goals and Approaches

ALL_ROWS

```
/*+ ALL_ROWS */
cost-based . ( , , , , )
```

FIRST_ROWS

```
/*+ FIRST_ROWS(n) */
. 가
cost-based . (
```

CHOOSE

```
/*+ CH00SE */

(optimizer)7\ SQL Rule-
Based Cost-Based .
```

RULE

```
/*+ RULE */
```

Rule-Based

Acess Method Hints

AND_EQUAL

```
/*+ AND_EQUAL (table index index [index] [index] [index]) */
```

CLUSTER

```
/*+ CLUSTER (table) */
```

FULL

```
/*+ FULL (table) */
```

HASH

```
/*+ HASH (table) */
```

hash

INDEX

```
/*+ INDEX (table index [index] [index] ...) */
```

INDEX

NO_INDEX

```
/*+ NO_INDEX (table [index] [index] ...) */
```

2023/05/08 12:08 3/9 Oracle HINT

INDEX_ASC

INDEX

INDEX_DESC

INDEX

INDEX_COMBINE

```
/*+ INDEX_COMBINE */
Bitmap ,, Bitmap .
```

INDEX_FFS

```
/*+ INDEX_FFS (table [index] [index] ...) */
```

ROWID

```
/*+ ROWID (table) */
```

ROWID

Join Order Hints

ORDERED

```
/*+ ORDERED */
```

FROM

STAR

Join Operation Hints

DRIVING SITE

```
/*+ DRIVING_SITE (table) */

SITE , SITE . . Rule-Based Cost-Based,
```

HASH AJ

```
/*+ HASH+AJ */

EXISTS

. HASHAJ hash anti-join, SJ semi-join, MERGESJ sort merge semi-join

NL_SJ nested loop semi-join
.
```

LEADING

```
/*+ LEADING (table) */

* .* LEADING
, 가 .* ORDERED , LEADING
```

USE_HASH

```
/*+ USE_HASH (table [table]...) */
```

Hash

USE_MERGE

```
/*+ USE_MERGE (table]...) */
```

Sort-Merge

USE_NL

```
/*+ USE_NL (table [table]...) */
```

2023/05/08 12:08 5/9 Oracle HINT

Nested-Loop

Parallel Execution Hints

PARALLEL

```
/*+ PARALLEL (table, n) */
```

* SELECT, INSERT

NOPARALLEL

```
/*+ NOPARALLEL(table) */

* .* PARALLEL  
가
```

PARALLEL INDEX

```
/*+ PARALLEL_INDEX (table [[indxe] [,i ndex]...] [[,n |, DEFAULT |,] [, n |
DEFAULT]]) */
```

PQ_DISTRIBUTE

NOPARALLEL_INDEX

```
/* NOPARALLEL_INDEX (table [index] [index] ...) */

. PARALLEL 7 ...
```

Query Transformation Hints

EXPAND_GSET_TO_UNION

/* EXPAND_GSET_TO_UNION */

* GROUP BY GROUPING SET GROUP BY ROLLUP
. * , UNION ALL

FACT

/*+ FACT (table) */

FACT .

NO FACT

/*+ NO_FACT (table) */

Star , FACT .

MERGE

/*+ MERGE (table) */

* VIEW MERGING * .* GROUP BY
SELECT DISTINCT가 , 가 가 가 .* IN
, 가 가 가 .*

* Cost-based가 . MERGE 가

NO_EXPAND

/* NO_EXPAND */

* OR WHERE IN , Cost-Based 가
OR . * OR 가

NO_MERGE

/*+ NO_MERGE(table) */

. * VIEW MERGING

2023/05/08 12:08 7/9 Oracle HINT

REWRITE

/*+ REWRITE [([materialized view] [materialized view]...)] */

• 가 Materialized View

• Materialized View , Materialized View 가

• Materialized View , 가 Materialized View

가 가 Materialized View

Materialized View

NOREWRITE

/*+ NOREWRITE */

• QUERY*REWRITE*ENABLE 가

• NOREWIRTE , Function-Based

USE_CONCAT

/*+ USE_CONCAT */

• WHERE OR UNION ALL

• 가 가

Other Hints

APPEND NOAPPEND

/*+ APPEND */

Direct INSERT

• Enterprise Edition

INSERT Conventional Direct

INSERT

CACHE NOCACHE

/*+ CACHE (table) */

LRU MRU

CURSOR_SHARING_EXACT

/*+ CURSOR_SHARING_EXACT */

• 가

• CURSOR_SHARING , SQL

DYNAMIC SAMPLING

/*+ DYNAMIC_SAMPLING ([table] n) */

• Selectivity Cardinality

• 0 10

CURSOR

UNNEST

/*+ UNNEST */

•

• UNNESTING 가

NO_UNNEST

/*+ NO_UNNEST */

UNNESTING

ORDERED_PREDICATES

/*+ ORDERED_PREDICATE */

• Cost

•

• WHERE

Nested Loop

• inner-outer

2023/05/08 12:08 9/9 Oracle HINT

Sort Merge

• 가 , full-scan

• Sort-Merge I/O , sqlplus /CPU/ .

Hash Join

• Row , Row 가

full-scan

Ref

- http://theone79.tistory.com/entry/%EC%98%A4%EB%9D%BC%ED%81%B4-hint-%EC%82%AC% EC%9A%A9%EB%B2%95
- http://annehouse.tistory.com/413
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