

智能电网、信息化整体解决专家

高效SQL

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Performance Tuning Concept:a) Steps for Tuning Oracle

Installation and Configuration Oracle

.Application Design

.Tuning Data Access

- .Tuning Memory Management
- .Tuning Disk I/O
- .Tuning CPU Usage
- .Tuning Resource Contention

2012/12/18

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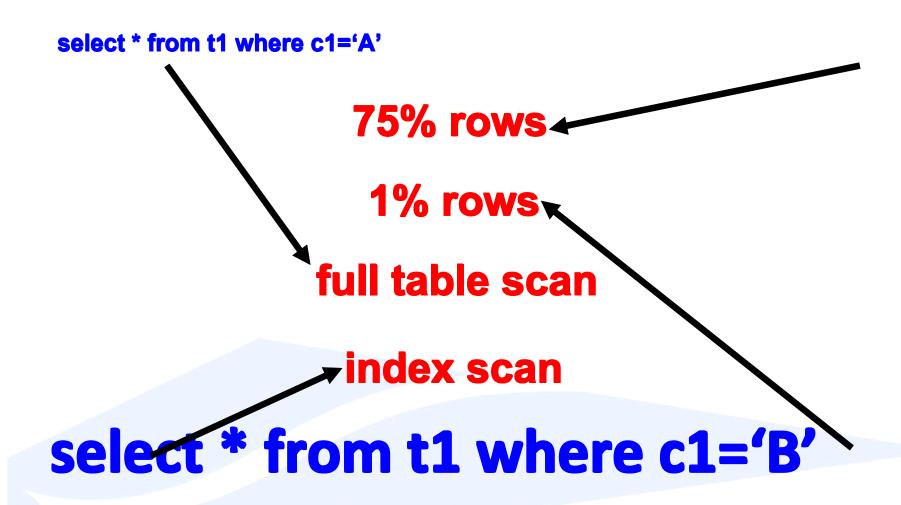
Select a, b, c from table1 where c1='A';

IF C1 is an index Then

Index Scan?
Or

Full table Scan?







- 1. Optimizer disable
- 2. Bind variable vs parse, SQL area
- 3. PL SQL vs SQL
- 4. What is SQL

Structure Simple **Q** uery Language Language

Query

S tupid Query



How to decide when need to create indexes

Indexes improve the performance of queries that select a small percentage of rows from the table. As a general guideline, you should create indexes on table which are often queries for less of the table's rows. 2% - 4%



```
ALL_ROWS
                      報表程式
SELECT /*+ AL
                                   e, title
FROM dbpbd1.dbpbd
WHERE empno='0195';
To optimize a statement block with a goal of
best throughput
(that is minimum total resource consumption).
```

FIRST ROWS SELECT /*+ FIRS1 itle 輸入程式 dbpbd1 FROM WHERE empno='0195, To optimize a statement block with a goal of

2012/12 **Dest response**



- 1. CPU, Memory & Disc
- 2. More index and/or Less index
- 3. Data analyze & design
- 4. System analyze & design



Application Design

1. 適合較多的index以增加執行效益?



Application Design

2.那 式 不適合取可index 以增加執行效益?



Application Design

高給大家思考!

如何避免?



Performance Tuning (a) Steps for Tuning

系統分析與設計

.Installation ana

思考多一點討論多一點

.Application Design

.Tuning Data Access

Tuning Memory Management

程式設計

技巧少一點 簡單一點

Alention

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谢谢聆听 Thanks



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