

Oracle® Database

SQL Tuning Guide

Figure 8-1 Direct Path Reads

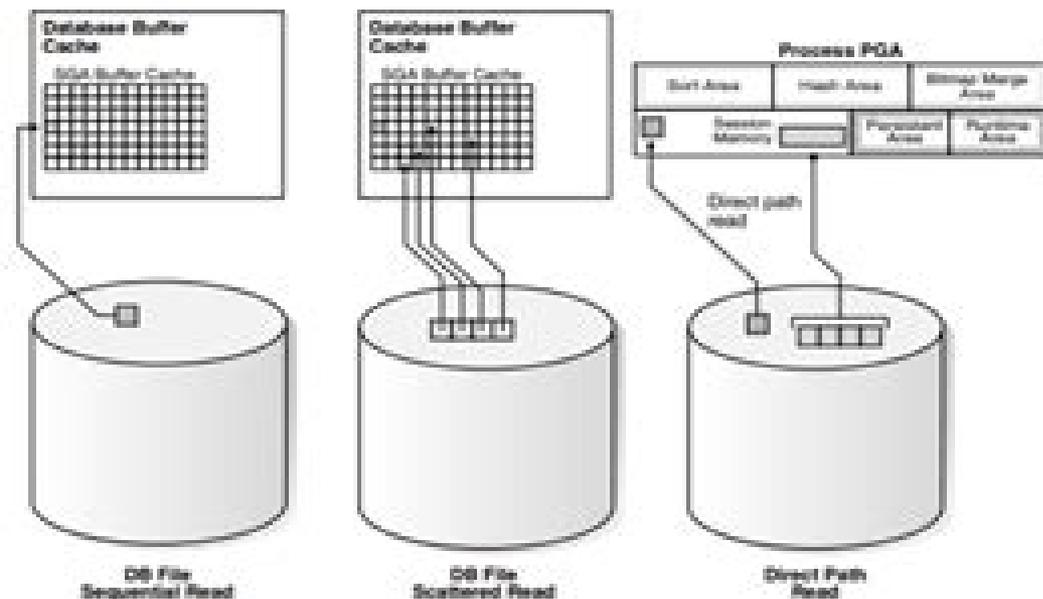
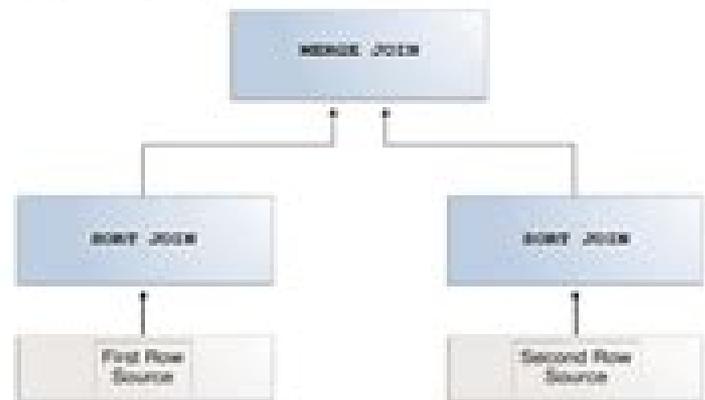


Figure 9-6 Sort Merge Join



SQL 쿼리 최적화 기본 사항

- 누락된 인덱스 추가
- 사용하지 않는 인덱스 확인
- FILTER 술어에 여러 OR를 사용하지 않는다.
- 구의 끝에만 와일드 카드 사용
- 너무 많은 JOIN은 피해라
- SELECT DISTINCT를 사용하지 마라
- SELECT * 대신 SELECT 필드 사용
- TOP을 사용하여 쿼리 결과 샘플링
- 사용량이 적은 시간에 쿼리 실행
- 쿼리 힌트 사용 최소화
- 대규모 쓰기 작업 최소화
- WHERE가 아닌 INNER JOIN으로 조인 생성

SQL 튜닝 방법론

- 적절한 인덱스를 사용하여 Block I/O를 최소화 하라
- 조인방법과 조인순서를 최적화 하라.
- Table Access(Random Access)를 최소화하라
- Sort나 Hash 작업을 최소화하라
- 한 블록은 한번만 Scan하고 끝내라
- 온라인의 조회화면이라면 페이징 처리는 필수다.

Oracle Sql Tuning Guide

N Colangelo



Oracle Sql Tuning Guide:

Oracle SQL High-performance Tuning Guy Harrison, Raymond Aron, 2001 Canada was young during the First World War and with as many as 20 000 underage soldiers leaving their homes to join the war effort the country's army was too Jim at 17 was one of them and he penned countless letters home But these weren't the writings of an ordinary boy They were the letters of a lad who left a small farming community for the city on July 15 1915 a boy who volunteered to serve with the 79th Queen's Own Cameron Highlanders Jim's letters home gloss over the horrors of war focusing instead on issues of the home front of harvesting training the horses and the price of hogs Rarely do these letters especially those to his mother and father mention the mud and rats the lice and stench of the trenches or the night duty of cutting barbed wire in no man's land For 95 years his letters remained in a shoebox decorated by his mother Jim was just 18 when he was wounded and died during the Battle of the Somme Hold the Oxo tells the story that lies between the lines of his letters filling in the historical context and helping us to understand what it was like to be Jim

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Oracle Essentials Rick Greenwald, Robert Stackowiak, Associate Fellow Sustainable Development Programme Royal Institute of International Affairs Jonathan Stern, Jonathan Stern, 2013-09-06 Written by Oracle insiders this indispensable guide distills an enormous amount of information about the Oracle Database into one compact volume Ideal for novice and experienced DBAs developers managers and users Oracle Essentials walks you through technologies and features in Oracle's product line including its architecture data structures networking concurrency and tuning Complete with illustrations and helpful hints this fifth edition provides a valuable one stop overview of Oracle Database 12c including an introduction to Oracle and cloud computing Oracle Essentials provides the conceptual background you need to understand how Oracle truly works Topics include A complete overview of Oracle databases and data stores and Fusion Middleware products and features Core concepts and structures in Oracle's architecture including pluggable databases Oracle objects and the various datatypes Oracle supports System and database management including Oracle Enterprise Manager 12c Security options basic auditing capabilities and options for meeting compliance needs Performance characteristics of disk memory and CPU tuning Basic principles of multiuser concurrency Oracle's online transaction processing OLTP Data warehouses Big Data and Oracle's business intelligence tools Backup and recovery and high availability and failover solutions

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