

# Oracle® Database

## SQL Tuning Guide

Figure 8-1 Direct Path Reads

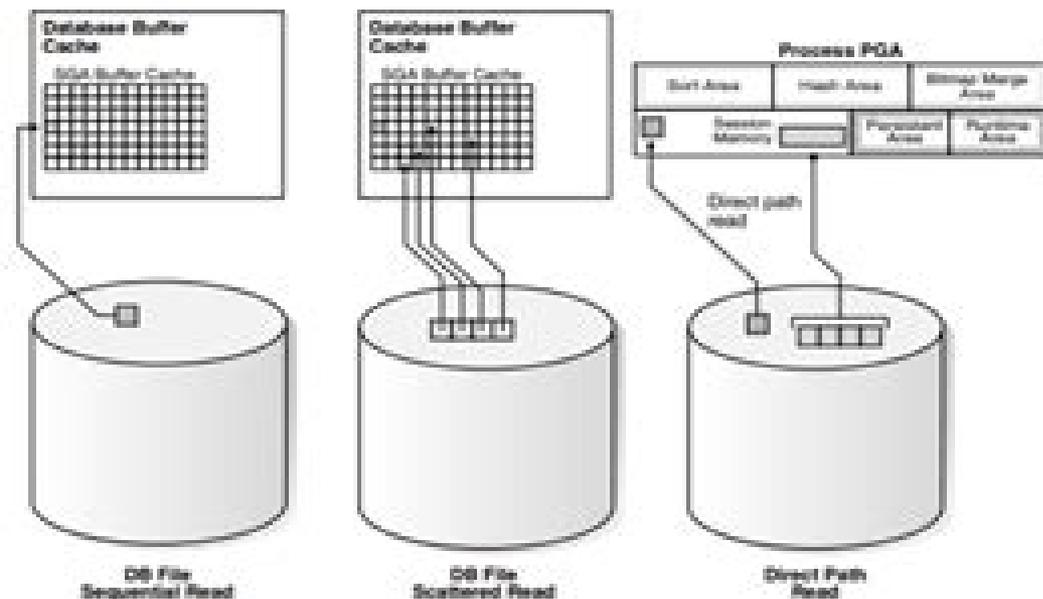
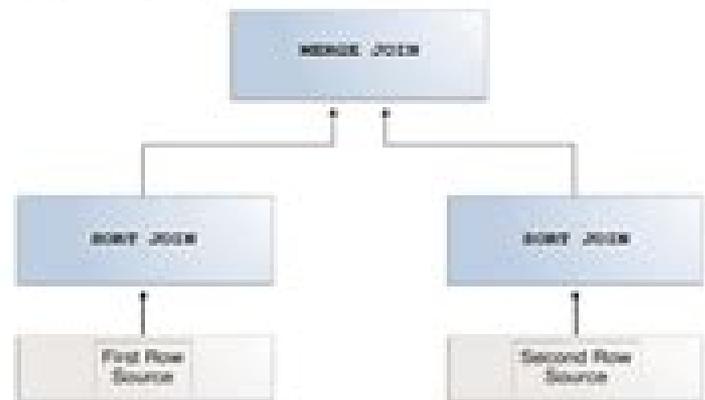


Figure 9-6 Sort Merge Join



### 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

**VM Jensen**



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