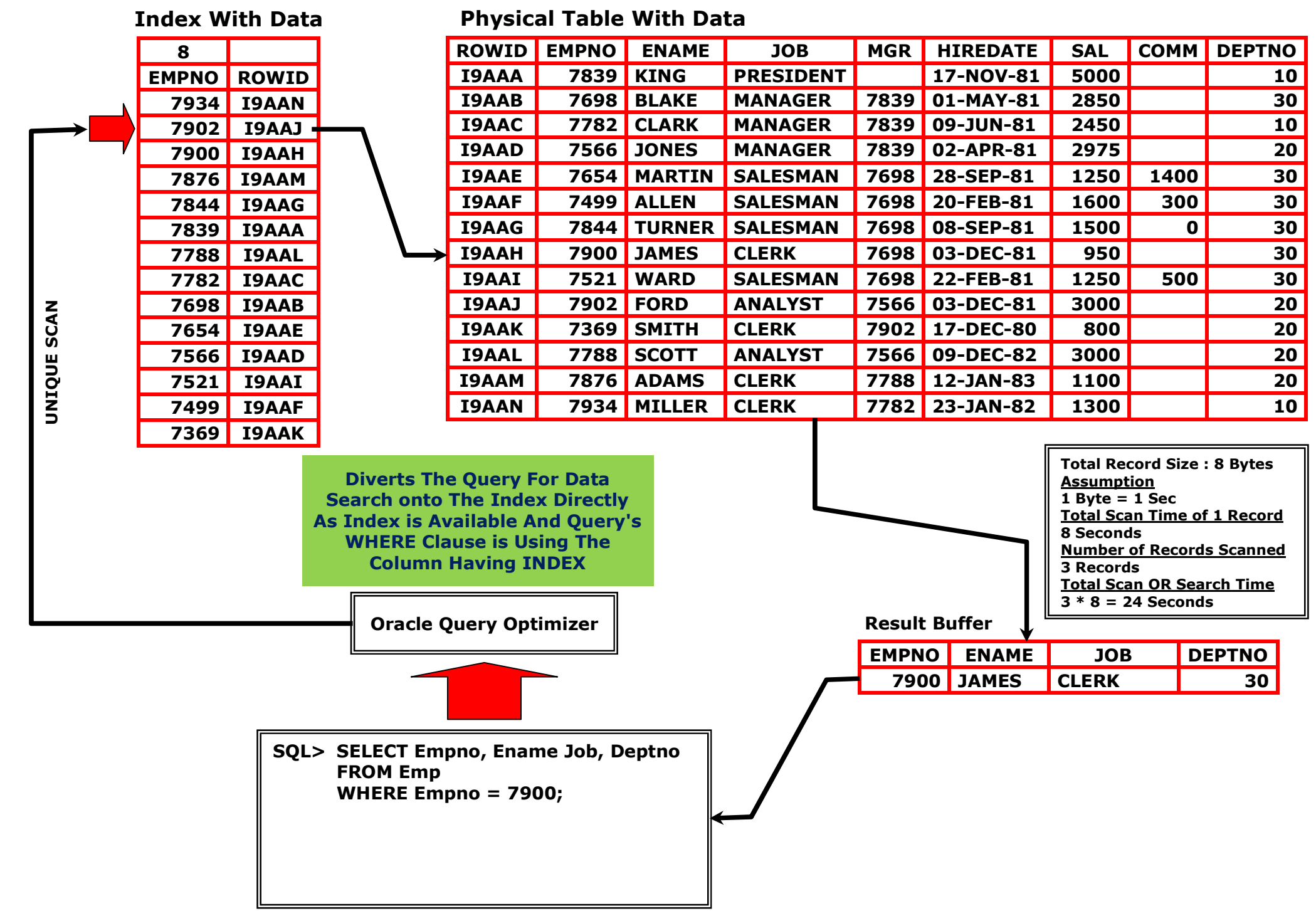
Index With Data
8
EMPNO ROWID
7934 I9AAN
7902 I9AAJ
7900 I9AAH
7876 I9AAM
7844 I9AAG
7839 I9AAA
7788 I9AAL
7782 I9AAC
7698 I9AAB
7654 I9AAE
7566 I9AAD
7521 I9AAI
7499 I9AAF
7369 I9AAK
UNIQUE SCAN
Physical Table With Data
ROWID EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO
I9AAA 7839 KING PRESIDENT 17-NOV-81 5000 10
I9AAB 7698 BLAKE MANAGER 7839 01-MAY-81 2850 30
I9AAC 7782 CLARK MANAGER 7839 09-JUN-81 2450 10
I9AAD 7566 JONES MANAGER 7839 02-APR-81 2975 20
I9AAE 7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400 30
I9AAF 7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300 30
I9AAG 7844 TURNER SALESMAN 7698 08-SEP-81 1500 0 30
I9AAH 7900 JAMES CLERK 7698 03-DEC-81 950 30
I9AAI 7521 WARD SALESMAN 7698 22-FEB-81 1250 500 30
I9AAJ 7902 FORD ANALYST 7566 03-DEC-81 3000 20
I9AAK 7369 SMITH CLERK 7902 17-DEC-80 800 20
I9AAL 7788 SCOTT ANALYST 7566 09-DEC-82 3000 20
I9AAM 7876 ADAMS CLERK 7788 12-JAN-83 1100 20
I9AAN 7934 MILLER CLERK 7782 23-JAN-82 1300 10
Diverts The Query For Data Search onto The Index Directly As Index is Available And Query's WHERE Clause is Using The Column Having INDEX
Total Record Size : 8 Bytes
Assumption
1 Byte = 1 Sec
Total Scan Time of 1 Record
8 Seconds
Number of Records Scanned
3 Records
Total Scan OR Search Time
3 * 8 = 24 Seconds
Oracle Query Optimizer
Result Buffer
EMPNO ENAME JOB DEPTNO
7900 JAMES CLERK 30
SQL> SELECT Empno, Ename Job, Deptno
FROM Emp
WHERE Empno = 7900;