

Physical Table With Data

	8	20	20	8	7	8	8	8	87 Bytes
ROWID	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	
I9AAA	7839	KING	PRESIDENT		17-NOV-81	5000		10	87 Bytes
I9AAB	7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30	87 Bytes
I9AAC	7782	CLARK	MANAGER	7839	09-JUN-81	2450		10	87 Bytes
I9AAD	7566	JONES	MANAGER	7839	02-APR-81	2975		20	87 Bytes
I9AAE	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30	87 Bytes
I9AAF	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30	87 Bytes
I9AAG	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30	87 Bytes
I9AAH	7900	JAMES	CLERK	7698	03-DEC-81	950		30	87 Bytes
I9AAI	7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30	87 Bytes
I9AAJ	7902	FORD	ANALYST	7566	03-DEC-81	3000		20	87 Bytes
I9AAK	7369	SMITH	CLERK	7902	17-DEC-80	800		20	87 Bytes
I9AAL	7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20	87 Bytes
I9AAM	7876	ADAMS	CLERK	7788	12-JAN-83	1100		20	87 Bytes
I9AAN	7934	MILLER	CLERK	7782	23-JAN-82	1300		10	87 Bytes

FULL TABLE SCAN

Diverts The Query For Data
Search onto The Table Directly As
Index is Not Available

Oracle Query Optimizer

SQL> SELECT Empno, Ename Job, Deptno
FROM Emp
WHERE Empno = 7900;

Result Buffer

EMPNO	ENAME	JOB	DEPTNO
7900	JAMES	CLERK	30

Total Record Size : 87 Bytes
Assumption
1 Byte = 1 Sec
Total Scan Time of 1 Record
87 Seconds
Number of Records Scanned
8 Records
Total Scan OR Search Time
 $8 * 87 = 696$ Seconds