

EXPERIMENT: 12

Aim: Create a table and perform the search operation on table using indexing and non-indexing techniques

Retrieve details of employee before creation of index.

SQL> set timing on;

SQL> select *from employee;

FNAME	LNAME	SSN	B_DATE	ADDRESS	G	SALARY	DNO
SMITH		1111	03-NOV-16	BJD	M	2000	10
ALLEN		2222	03-NOV-16	SBC	M	3000	20
MARTIN		3333	03-NOV-16	HYD	M	4000	30
JONES		4444	28-SEP-15	TNU	M	2500	10
BLAKE		5555	04-SEP-24	VZA	M	2500	10
TURNER		6666	21-OCT-99	GNT	M	6000	20

6 rows selected.

Elapsed: 00:00:03.37

Index creation:

SQL> create index employee_ind on employee(salary);

Index created.

Elapsed: 00:00:00.00

Retrieve details of employee after creation of index column

SQL> select *from employee where salary>2000;

FNAME	LNAME	SSN	B_DATE	ADDRESS	G	SALARY	DNO
ALLEN		2222	03-NOV-16	SBC	M	3000	20

MARTIN	3333	03-NOV-16	HYD	M	4000	30
JONES	4444	28-SEP-15	TNU	M	2500	10
BLAKE	5555	04-SEP-24	VZA	M	2500	10
TURNER	6666	21-OCT-99	GNT	M	6000	20

Elapsed: 00:00:00.44

Retrieve details of employee without creation of index column

SQL> select *from employee where ssn>2222;

FNAME	LNAME	SSN	B_DATE	ADDRESS	G	SALARY	DNO

MARTIN		3333	03-NOV-16	HYD	M	4000	30
JONES		4444	28-SEP-15	TNU	M	2500	10
BLAKE		5555	04-SEP-24	VZA	M	2500	10
TURNER		6666	21-OCT-99	GNT	M	6000	20

Elapsed: 00:00:01.53