Ex.No.5

12.03.2025

VIEW AND INDEX



```
-----
```

kamalesh 76 23000 12

SQL> create view v2 as select name,emp_no,salary,deptno from emp1;

View created.

SQL> select * from v2;

NAME EMP_NO SALARY DEPTNO

kabesh 75 19000 11

kamalesh 76 23000 12

jegan 73 27000 13

jeyasanjay 74 32000 14

SQL> create view v3 as select name,emp_no from emp1;

View created.

SQL> select * from v3;

NAME EMP_NO

kabesh 75

kamalesh 76

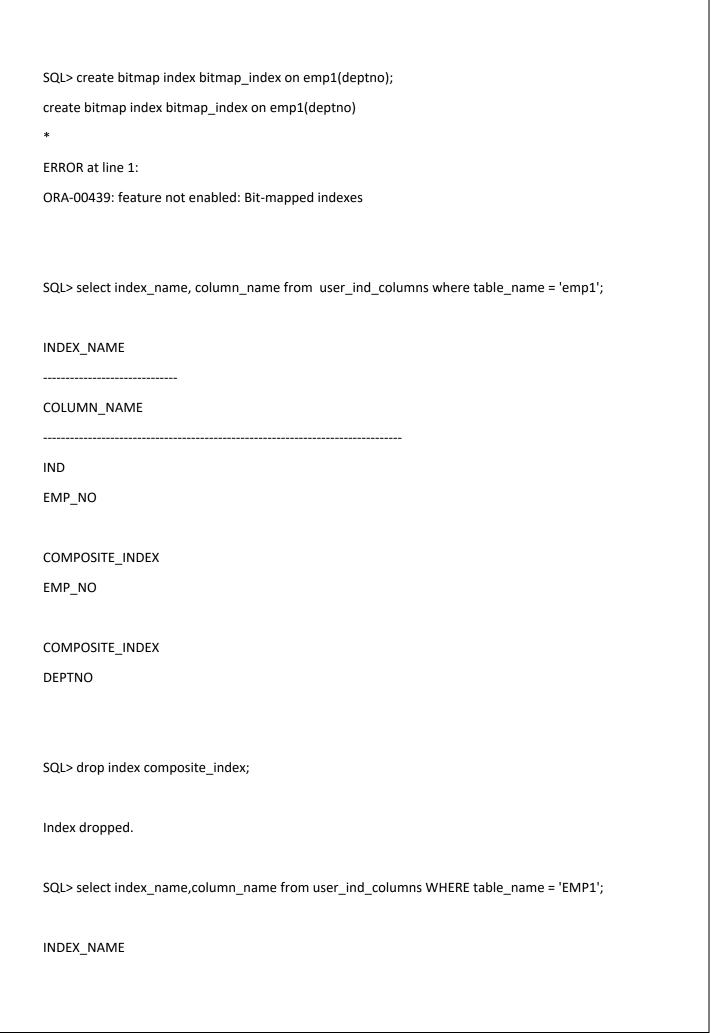
jegan 73

jeyasanjay 74

SQL> create table dept1(deptno number(10),dept_name varchar(10));

```
Table created.
SQL> insert into dept1 values(11, 'Finance');
1 row created.
SQL> insert into dept1 values(13,'Sales');
1 row created.
SQL> insert into dept1 values(14,'Production');
1 row created.
SQL> insert into dept1 values(12, 'Marketing');
1 row created.
SQL> create view combo as select name,emp_no,salary,dept1.deptno,dept_name from emp1,dept1
where emp1.deptno=dept1.deptno;
View created.
SQL> select * from combo;
          EMP_NO SALARY DEPTNO DEPT_NAME
NAME
kabesh 75 19000 11 Finance
jegan 73 27000
                         13 Sales
jeyasanjay 74 32000
                         14 Production
          76 23000 12 Marketing
kamalesh
```

```
SQL> insert into combo values('john',12,10000,16,'worker');
insert into combo values('john',12,10000,16,'worker')
ERROR at line 1:
ORA-01779: cannot modify a column which maps to a non key-preserved table
INDEX:
SQL> create index ind on emp1(emp_no);
Index created.
SQL> Sselect index_name, column_name from user_ind_columns where index_name = 'ind';
INDEX_NAME
COLUMN_NAME
IND
EMP_NO
SQL> create index composite_index on emp1(emp_no, deptno);
Index created.
SQL> SELECT * FROM emp1 WHERE emp_no = 075 AND deptno = 11;
NAME EMP_NO SALARY DEPTNO
          -----
kabesh 75 19000 11
```



COLUMN_NAME	
IND	
EMP_NO	

CONTENTS	MARKS ALLOTTED	MARKS OBTAINED
Aim , Algorithm, SQL,PL/SQL	30	
Execution and Result	20	
Viva	10	
Total	60	

RESULT:

Thus, virtual table created by querying data for view and data retrieval for table using index were executed.