

Ex.No.5

12.03.2025

VIEW AND INDEX

```
SQL> create table emp1(name varchar(10),emp_no number(5),salary number(10),deptno  
number(10));
```

Table created.

```
SQL> insert into emp1 values('kabesh',075,19000,11);
```

1 row created.

```
SQL> insert into emp1 values('kamalesh',076,23000,12);
```

1 row created.

```
SQL> insert into emp1 values('jegan',073,27000,13);
```

1 row created.

```
SQL> insert into emp1 values('jeyasanjay',074,32000,14);
```

1 row created.

```
SQL> create view v1 as select name,emp_no,salary,deptno from emp1 where deptno=12;
```

View created.

```
SQL> select * from v1;
```

NAME	EMP_NO	SALARY	DEPTNO
------	--------	--------	--------

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;
```

NAME	EMP_NO	SALARY	DEPTNO	DEPT_NAME
kabesh	75	19000	11	Finance
jegan	73	27000	13	Sales
jeyasanjay	74	32000	14	Production
kamalesh	76	23000	12	Marketing

```
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
```

```
SQL> create bitmap index bitmap_index on emp1(deptno);
```

```
create bitmap index bitmap_index on emp1(deptno)
```

```
*
```

```
ERROR at line 1:
```

```
ORA-00439: feature not enabled: Bit-mapped indexes
```

```
SQL> select index_name, column_name from user_ind_columns where table_name = 'emp1';
```

```
INDEX_NAME
```

```
-----
```

```
COLUMN_NAME
```

```
-----
```

```
IND
```

```
EMP_NO
```

```
COMPOSITE_INDEX
```

```
EMP_NO
```

```
COMPOSITE_INDEX
```

```
DEPTNO
```

```
SQL> drop index composite_index;
```

```
Index dropped.
```

```
SQL> select index_name,column_name from user_ind_columns WHERE table_name = 'EMP1';
```

```
INDEX_NAME
```

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.