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# **VIEWS AND INDEX**

#### AIM:

To understand and implement the concepts of views and indexes in SQL.

#### **CREATING A VIEW:**

SQL> create table empl01(id number(4) primary key, name varchar(18), age number(2), area varchar(15), workhours number(2));

Table created.

```
SQL> insert into empl01 values(68, 'jayashangav', 18, 'perundurai', 19);
```

1 row created.

```
SQL> insert into empl01 values(73, 'jegan', 19, 'salem', 20);
```

1 row created.

```
SQL> insert into empl01 values(74, 'sanjay', 20, 'erode', 21);
```

1 row created.

```
SQL> insert into empl01 values(80, 'karthik', 21, 'vijayapuri', 22);
```

1 row created.

```
SQL> insert into empl01 values(82, 'kavin', 22, 'thingalur', 23);
```

1 row created.

SQL> select \* from empl01;

```
ID NAME AGE AREA WORKHOURS

68 jayashangav 18 perundurai 19

73 jegan 19 salem 20

74 sanjay 20 erode 21

80 karthik 21 vijayapuri 22
```

```
82 kavin
                      22 thingalur
                                     23
  SQL>create view emp01 as select id , name , area from empl01;
  View created.
  SQL> select * from emp01;
     ID NAME
                    AREA
     68 jayashangav
                     perundurai
     73 jegan
                  salem
     74 sanjay
                       erode
     80 karthik
                       vijayapuri
     82 kavin
                       thingalur
TO CREATE A VIEW COMBO USING BOTH THE TABLES EMP01 AND EMP02:
  SQL> create table empl02(id number(4) primary key, name varchar(18), age number(2), area
  varchar(15) , workhours number(2));
 Table created.
 SQL> insert into empl02 values(68, 'jayashangav', 18, 'perundurai', 19);
 1 row created.
 SQL> insert into empl02 values(75, 'kabesh', 19, 'jaipur', 20);
 1 row created.
 SQL> insert into empl02 values(74, 'sanjay', 20, 'erode', 21);
 1 row created.
```

SQL> insert into empl02 values(81, 'kartikeyan', 21, 'salem', 22);

1 row created.

SQL> create view combo as select empl01.id , empl01.name , empl01.area from empl01 , empl02 where empl01.id = empl02.id;

SQL> select \* from combo;

74 sanjay

```
ID NAME AREA
-----
68 jayashangav perundurai
```

### TO PERFORM MANIPULATIONS ON THIS VIEW:

erode

```
SQL> insert into combo

2 values(80,'karthik',28,'Erode', 22);
insert into combo
```

ERROR at line 1:

Table

ORA-01779: cannot modify a column which maps to a non key-preserved

This shows that when a view is created from two different tables no manipulations can be performed using that view and the above error is displayed.

#### **INDEX**:

#### SYNTAX:

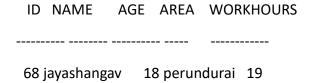
Creating an Index: create index indexname on table name (column name)

### Single column Index:

A Single column index is an index on one table

SQL> create index empl68 on empl01(name); Index created.

SQL> SELECT \* FROM empl01 WHERE name = 'jayashangav';



## **Composite index:**

A composite index is an index on two or more columns of a table.

SQL> create index empl68 on empl01(name,age); Index created.

SQL> SELECT \* FROM empl01 WHERE name = 'jegan' AND age = '19';

 ID NAME
 AGE AREA WORKHOURS

 73 jegan
 19 salem
 20

# **Bitmap Index:**

Bitmap Indexing is a special type of database indexing that uses bitmaps

# **Dropping an Index:**

DROP INDEX index\_name

SQL> drop index empl68;

Index dropped.

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# **RESULT**

Thus Two tables are created . Views , Index for this tables are created  $\,$  successfully. Created Views , Index are dropped Successfully.