

Theory and Concept

Assignment # 8

Objective:- To implement the concept of Indexes and views.

Indexes- An index is an ordered list of content of a column or group of columns in a table. An index created on the single column of the table is called simple index. When multiple table columns are included in the index it is called composite index.

Creating an Index for a table:-

Syntax (Simple)

```
CREATE INDEX index_name  
ON tablename(column name);
```

Composite Index:-

```
CREATE INDEX index_name  
ON tablename(columnname,columnname);
```

Creating an Unique Index:-

```
CREATE UNIQUE INDEX indexfilename  
ON tablename(columnname);
```

Dropping Indexes:-

An index can be dropped by using DROP INDEX

SYNTAX:-

```
DROP INDEX indexfilename;
```

Views:-

Logical data is how we want to see the current data in our database. Physical data is how this data is actually placed in our database.

Views are masks placed upon tables. This allows the programmer to develop a method via which we can display predetermined data to users according to our desire.

Views may be created for the following reasons:

1. The DBA stores the views as a definition only. Hence there is no duplication of data.
2. Simplifies Querying.
3. Can be Queried as a base table itself.
4. Provides data security.
5. Avoids data redundancy.

Creation of Views:-

Syntax:-

```
CREATE VIEW viewname AS  
SELECT columnname,columnname  
FROM tablename  
WHERE columnname=expression_list;
```

Renaming the columns of a view:-

Syntax:-

```
CREATE VIEW viewname AS  
SELECT newcolumnname....  
FROM tablename  
WHERE columnname=expression_list;
```

Selecting a data set from a view-

Syntax:-

```
SELECT columnname, columnname  
FROM viewname  
WHERE search condition;
```

Destroying a view-

Syntax:-

```
DROP VIEW viewname;
```

Assignment # 8

Objective : Answer the following Questionstions

- Q1. Create an index on the table client_master, field client_no.
- Q2. Create an index on the sales_order, field s_order_no.
- Q3. Create an composite index on the sales_order_details table for the columns s_order_no and product_no.
- Q4. Create an composite index ch_index on challan_header table for the columns challan no and s_order_no.
- Q5. Create an uniQuestion index on the table salesman_master, field salesman_no.
- Q6. Drop index ch_index on table challan_header.
- Q7. Create view on salesman_master whose sal_amt is less than 3500.
- Q8. Create a view client_view on client_master and rename the columns as name, add1, add2, city, pcode, state respectively.
- Q9. Select the client names from client_view who lives in city 'Bombay'.
- Q10. Drop the view client_view.