ASSIGNMENT 11

Aim: Write DDL statements to create views on single and multiple tables above from above DB.

Problem Statement: Write DDL statements to create MENS on single and multiple tables from above DB. Do the following operation to demonstrate the use of view:

- · update the base table
- · Insert new record in base table
- · Pelete record in the base table
- · DML on view

what are the restrictions applicable while creating or modifying views? Demonstrate using suitable queries.

· To understand implementation of different types of views

- · To implement and analyze various operations on views
- Theory:

 Yiew :- Database view is known as a "virtual table" that allows

 you to query the data in it. Understanding the database views

 and using them correctly are very important. A database

 View is defined as a SQL SELECT query with joins. Because

 a database view is similar to a database table, when

 consists of rows and columns, so you can query data

 against it. Most database management systems, including

 MYSQL allow you to update data in the underlying tables

 through the database view with some prerequisites.

A database view à dynamic because it is not nelated to the physical schema. The database system stores database views reflects as a SQL SELECT statement with

joins. When the data of the tables change the view supects the change as well.

Advantages of views: -

- i) allows you to simplify complex queries
- 2) It helps limit data access to specific users
- 5) It provides an extra security layers
- 4) It enables computed columns.
- 5) It enables backward compatiblity

DEsadvantages of views: -

- i) Performances quering data from a database view can be slow especially if the view is created based on the views.
- 2) Tables Dependency: you create a view based on underlying tables of the database. Whenever you change the structure of those tables that view associated with, you have to change the view as well

CREATE VIEW Statement:

To create a new view in MYSQL, you use the CREATE VIEW Statement. The syntax of creating a view to as follows: create

[algorithm = { merge | temptable | undefined y] view [database - name] [view - name]

[select statement]

Your processing algorithms & The algorithm attribute allows you to control which mechanism MYSAL uses when creating

the view o MYSQL provides 3 algorithms:

- MERGE MYSQL first combines the input query with the SELECT Statement which defines the view into a single query and then executes the combined query to return the result set
- on the select statement that defines the view and then executes the input query against this temporary table.

 UNDEFINED It is the default algorithm when you create a view without specifying an explicit algorithm.

Y'ew Name

within a database, views and tables share the same namespace therefore, a view and a table cannot have the same name. In addition, the name of a view must follow the table's naming rules.

SELECT statement

In select statement, you can query data from any table or view that exists in database "There are several rules that the SELECT statement must follow:

- · It can contain a subquery in WHERE clause but not in the FROM Clause.
- · It cannot refer to any variables including local variables, user variables and session variables
- · It cannot refer to the parameters of prepared statements.

create view Sale Pacorder as select order Number, sum (quantity + price) to tal from