

ASSIGNMENT NO. 8

Aim

Execute DDL statements which demonstrate use of Views.

Objective

Understand and implement DDL statements to demonstrate views.

Theory

MySQL View:

A database view is a virtual table or logical table which is defined as a [SQL SELECT query](#) with [joins](#). Because a database view is similar to a database table, which consists of rows and columns, so you can query data against it.

create view view_name as select statement

MySQL view's restrictions

You cannot create an index on a view. MySQL uses [indexes](#) of the underlying tables when you query data against the views that use the merge algorithm. For the views that use the temptable algorithm, indexes are not utilized when you query data against the views.

You cannot use [subqueries](#) in the FROM clause of the [SELECT statement](#) defined the view before MySQL 5.7.7

If you drop or [rename tables](#) that a view is based on, MySQL does not issue any errors. However, MySQL does invalidate the view. You can use the CHECK TABLE statement to check whether the view is valid.

A simple view can be [updatable](#). A view created based on a complex SELECT statement with [join](#), [subquery](#), etc., cannot be updatable

Syntax

create view view_name as select query;

Example ;

Simple View

create view v1 as select empname, address, salary from employee;

View using joins

create view v2 as select empname, dname from employee, department where employee.did=department.did;

View using aggregate function

create view v3 as select did, sum(salary) from employee group by did;

View using nested Queries

create view v4 as select * from Employee where salary in (select max(salary) from Employee);

Output

- Create view.

References:

1. Raghu Ramkrishanan, Johannes Gehrke 4 th Edition “Database Management Systems” 2. Avi Silberschatz , Henry F. Korth , S. Sudarshan, “Database System Concepts, Sixth Edition”, ISBN-13: 978-93-3290-138-4, MCGraw Hill

Frequently Asked Questions

Q. No	Questions	BT	CO
1	Explain concept of views?	2	2
2	Explain view updating rules?	2	2
3	Explain constraints on views.	2	2

Guidelines for Students

The experiments should be completed and get checked by the concerned teacher in the lab on or before the date of submission. After which the experiment will not be signed.

Every experiment must be included in the file in following format.

- Aim:** In this section write complete objective of the program you are going to make in the lab. This section specifies the complete description of the including problem analysis, input description, method used, fundamental concept and desired output format.
- Theory:** Write brief theory related to practical.
- Algorithm:** Write Algorithm for given task.
- Input:** Write input test data/ or program that are used to test program objective to see whether program is achieving the given objective or not.
- Output:** describe the results in few lines
- Conclusion:** Write complete conclusion whether what the student has learned from this experiment.

g. **Source Code:** Submit in the form of soft copies.

- **Marking criteria.**

- Experiment completion (Timely)
 - Lab file (neatness and regularity)
 - Viva (from time to time)
 - Mock Practical Exam
 - Exam (end term): Practical + Viva

- **Assessment Methodology**

- Timely completion of assignment- 2marks
 - Program demonstration- 4 marks
 - Viva-voce -2 marks
 - Timely submission of journal- 2 marks