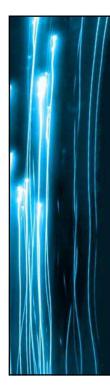


VIEW

It is a specific look on data from one or more tables. It can arrange data in some specific order, highlight or hide some data. It is consists of a stored query accessible as a virtual table composed of the result set of a query. Unlike ordinary tables a view does not form part of the physical schema. It is a dynamic, virtual table computed or collated from data in the database.



VIEW...

It is a pseudo table. It is a stored query which looks like a table. And it can be referenced like a table.

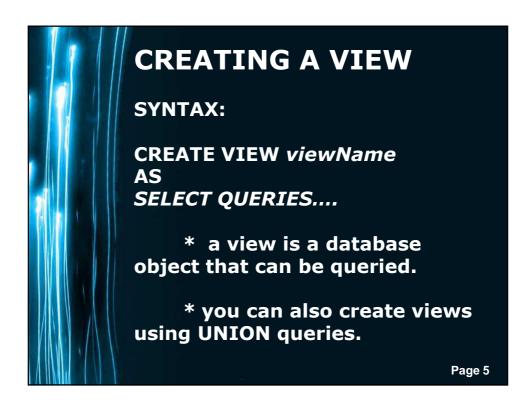
It can restrict users to specific rows or columns and thus enhance security. They can be used to join columns from multiple tables, so that they look like a single table. They can be used to provide aggregate information.

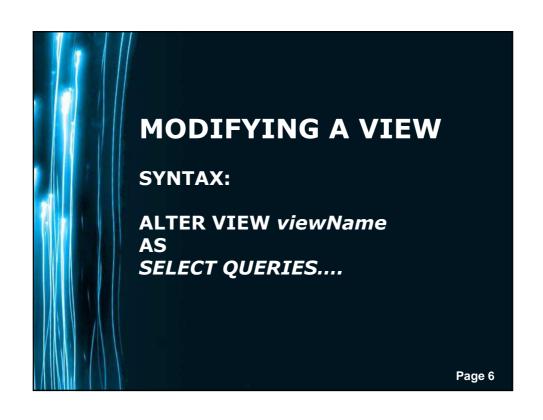
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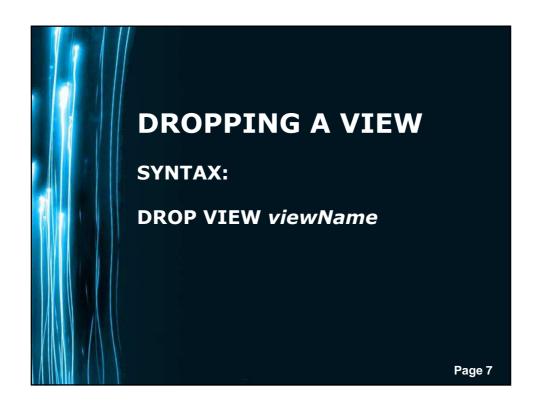


RESTRICTIONS IN USING VIEWS:

- 1. The SELECT statement cannot contain a subquery.
- 2. The SELECT statement cannot refer to system or user variables.
- 3. Any table/view referred to in the definition must exist.
- 4. A temporary view cannot be created.
- 5. A view cannot be associated with a trigger.









MYSQL Trigger

It is a set of SQL statements stored in the database catalog. It is executed or fired whenever an event associated with a table occurs.

e.g., insert, update or delete.

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Advantages

- It provides an alternative way to check the integrity of data.
- It can catch errors in business logic in the database layer.
- □ It provides an alternative way to run scheduled tasks.
- They are very useful to audit the changes of data in tables.

Disadvantages

It can only provide extended validation and cannot replace all validations.

They are invoked and executed invisibly from client-applications therefore it is difficult to figure out what happen in the database layer.

It may increase the overhead of the database layer.

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6 Triggers

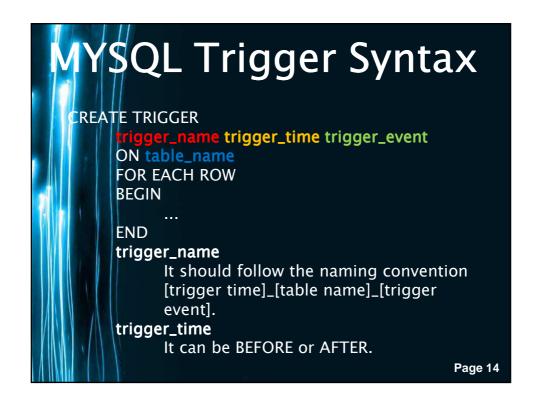
□BEFORE INSERT – activated before data is inserted into table.

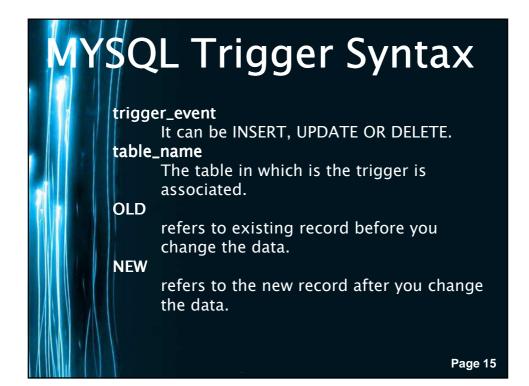
□ AFTER INSERT – activated after data is inserted into table.

□BEFORE UPDATE – activated before data is updated.

□ AFTER UPDATE – activated after data is updated.







MYSQL Trigger Management To display trigger: SELECT * FROM Information_Schema.Triggers WHERE Trigger_schema='database_name' AND Trigger_name='trigger_name'; To drop a trigger: Drop Trigger table_name trigger_name

```
DELIMITER $$
CREATE TRIGGER before_employee_update
BEFORE UPDATE ON employees
FOR EACH ROW
BEGIN
INSERT INTO employees_audit
SET action = 'update',
employeeNumber = OLD.employeeNumber,
lastname = OLD.lastname,
changedon = NOW();
END
$$
DELIMITER;
```