SQL VIEWS

views in SQL :

- This view in the Structured quary Language (SQL) is consider as a virtual table.

- To create a view, we can select the Feids from one or more table present in the database.   @curious--programmer

- Like the SQL tables, views also store data in rows and columns, but the rows do not have any physical existance in database.

- A view can store eigther all record of the table or a particular record from the table using the where clouse.

Create view Statement :

the SQL views can create using CREATE VIEW statement.

Syntax :

```
CREATE VIEW view_name AS
SELECT Column1, Column2, column3 .... columnN
FROM Table_name
WHERE Condition;
```

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example to create a view :

table name : student details

student_ID	stu_name	stu_sub	stu_marks
101	yadnyesh	math	95
102	sahil	science	85
103	Ram	english	76
104	shyam	Hindi	87
105	Rohan	computer	98
106	Joy	science	92
107	Bob	math	87

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view : student_view

• Creating a view

      CREATE VIEW student_view As
      SELECT student_ID . stu_name , stu_marks
      FROM student details
      WHERE stu_marks > 90 :

• displaying a view

      SELECT *FROM student_view;

output :

student_ID	stu_name	stu_marks
101	yadnyesh	95
105	Rohan	98
106	Joy	92

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Update an SQL view :

- you can update the view which depend on one table. SQL will not allow updating in the view which is created more than one table.

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- we can also modify existing data and insert new record in the view.

Syntax :

```
CREATE OR Replace VIEW View-name AS
SELECT column1, column2 .... columnN
FROM Table-name
WHERE condition;
```

Example

[same table is used here]

```
CREATE OR RePlACE VIEW Student-view AS
SELECT student_Id, stud-name, stu-subject, stu-marks
FROM student-details
where stu-sub = 'MATH';
```

[for displaying the view]

output : Select * FROM student-view;

output :

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student-ID	stu-name	stu-sub	stu-marks
101	yadnyesh	math	95
107	Bob	math	85

Inserting into views :

syntax :

INSERT INTO view_name (column_name1, column_name2

.... column_nameN);

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example :

INSERT INTO student_view (student_Id, stu_sub, stu_

stu_name, stu-sub, stu_marks)

VALUES (108, Ramesh, Java, 90);

student_ID	stu-name	stu-sub	stu-marks
101	Yadnyesh	math	95
102	Sahil	science	85
103	Ram	english	76
104	shyam	Hindi	87
105	Rohan	computers	98
106	Joy	science	92
107	Bobb	math	87
108	Ramesh	Java	90

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① Drop a view :

Drop view statement is used to delete the view from a database.

syntax :

DROP VIEW view_name;

example :

DROP VIEW student_view;