

# SQL Views

## SQL CREATE VIEW Statement

In SQL, a view is a virtual table based on the result-set of an SQL statement.

A view contains rows and columns, just like a real table. The fields in a view are fields from one or more real tables in the database.

You can add SQL functions, WHERE, and JOIN statements to a view and present the data as if the data were coming from one single table.

## CREATE VIEW Syntax

```
CREATE VIEW view_name AS
SELECT column1, column2, ...
FROM table_name
WHERE condition;
```

## CREATE VIEW Examples

```
CREATE VIEW [Brazil Customers] AS
SELECT CustomerName, ContactName
FROM Customers
WHERE Country = "Brazil";

SELECT * FROM [Brazil Customers];
```

The following SQL creates a view that selects every product in the "Products" table with a price higher than the average price:

```
CREATE VIEW [Products Above Average Price] AS
SELECT ProductName, Price
FROM Products
WHERE Price > (SELECT AVG(Price) FROM Products);
```

# Creating View from multiple tables

```
CREATE VIEW MarksView AS  
SELECT Student_Detail.NAME, Student_Detail.ADDRESS, Student_Marks.MARKS  
FROM Student_Detail, Student_Mark  
WHERE Student_Detail.NAME = Student_Marks.NAME;
```

To display data of View MarksView:

```
SELECT * FROM MarksView;
```

## Updating a View

A view can be updated with the CREATE OR REPLACE VIEW command.

### SQL CREATE OR REPLACE VIEW Syntax

```
CREATE OR REPLACE VIEW view_name AS  
SELECT column1, column2, ...  
FROM table_name  
WHERE condition;
```

The following SQL adds the "City" column to the "Brazil Customers" view:

```
CREATE OR REPLACE VIEW [Brazil Customers] AS  
SELECT CustomerName, ContactName, City  
FROM Customers  
WHERE Country = "Brazil";
```

## Dropping a View

A view is deleted with the DROP VIEW command.

## DROP VIEW Syntax

```
DROP VIEW view_name;
```

The following SQL drops the "Brazil Customers" view:

```
DROP VIEW [Brazil Customers];
```