

## View

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## Introduction

- 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.

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## Creating a view

- Syntax

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

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## Creating a view

### □ Examples

```
CREATE VIEW vCompany1 AS  
SELECT Name, Address, Telephone  
FROM Company
```

```
CREATE VIEW vCompany2 AS  
SELECT Name, Address, Telephone  
FROM Company  
WHERE Address LIKE '%Japan%'
```

```
CREATE VIEW vComSupPro1(ComName, ProdName, Qty) AS  
SELECT Company.Name, Product.Name, Quantity  
FROM Company INNER JOIN Supply ON Company.CompanyID  
= Supply.CompanyID  
INNER JOIN Product ON Supply.ProductID = Product.ProductID
```

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## Querying on a view

```
SELECT * FROM vCompany1  
WHERE Address LIKE '%Germany%';
```

```
SELECT * FROM vCompany2;
```

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## Deleting a view

### □ Syntax

```
DROP VIEW view_name;
```

### □ Example

```
DROP VIEW vCompany1;  
DROP VIEW vCompany2;  
DROP VIEW vComSupPro1;
```

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