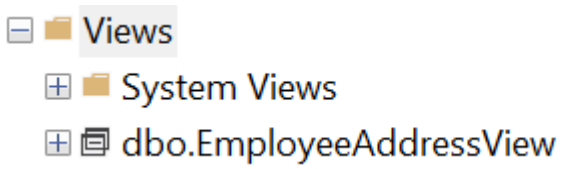
Lab53:

Views:

I have created a view to join the Employee and Emp_Address tables to see employee details along with their address.

```
--views---------
CREATE VIEW EmployeeAddressView AS
SELECT e.EmployeeID, e.EmpName, ea.AddressDetails
FROM dbo.Employee e
JOIN dbo.Emp_Address ea ON e.EmployeeID = ea.EmployeeID;
```

Here is view that is created in a folder structure:



Create indexed view:

Created an indexed view to improve query performance.

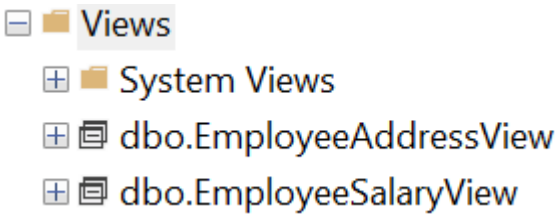
Created a view named EmployeeSalaryView with schema binding. Schema binding ensures the underlying tables cannot be modified in a way that would affect the view. Select the fields from the table.

Create a unique clustered index on the EmployeeSalaryView

```
---indexed view-------------
-- Ensure ANSI_NULLS and QUOTED_IDENTIFIER are ON
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON

-- Create an indexed view
CREATE VIEW EmployeeSalaryView WITH SCHEMABINDING AS
SELECT EmployeeID, EmpName, EmpSalary
FROM dbo.Employee;

-- Create a clustered index on the view
CREATE UNIQUE CLUSTERED INDEX IDX_EmployeeSalaryView ON dbo.EmployeeSalaryView(EmployeeID);
```



Modify view:

Modify the EmployeeAddressView to add the employee salary column here.

```
ALTER VIEW EmployeeAddressView AS
SELECT e.EmployeeID, e.EmpName, e.EmpSalary, ea.AddressDetails
FROM dbo.Employee e
JOIN dbo.Emp_Address ea ON e.EmployeeID = ea.EmployeeID;
```

Steps:

- Altering the existing EmployeeAddressView to include the EmpSalary column.
- Select EmployeeID, EmpName, adding EmpSalary, AddressDetails from the Employee and Emp_Address table.

Modify Data Through a View:

Steps :

- Update the EmpName through the EmployeeAddressView
- Verify the update in the underlying Employee tableChanging the name of the employee with EmployeeID = 1.

```
--------Modify Data Through a View-------
-- Update EmpName through the view
UPDATE EmployeeAddressView
SET EmpName = 'John Doe'
WHERE EmployeeID = 1;
```

Output:

Results | Messages

	EmployeeID	EmpName	EmpSalary	EmpGender
1	1	John Doe	50000.00	M

Delete an existing view:

Here I am deleting an existing view which is EmployeeAddressView by DROP command.

```
----delete ----------
-- Drop the EmployeeAddressView
DROP VIEW EmployeeAddressView;

-- Verify the view is deleted
SELECT * FROM sys.views WHERE name = 'EmployeeAddressView';
```

Here I can see that the view is deleted from the structure.