Article: SELECT * and Column Issue in View
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This is very well known limitation of the **View**.

Once the **view** is created and if the basic table has any column added or removed, it is not usually reflected in the view till it is refreshed.

To test this, we will create a view where we will use **SELECT *** and select everything from the table. Once the view is created, we will add a column to the view.

We will test that even though we have used **SELECT ***, the view does not retrieve the newly added column. Once we refresh the view using **SP_REFRESHVIEW**, it will start retrieving the newly added column.

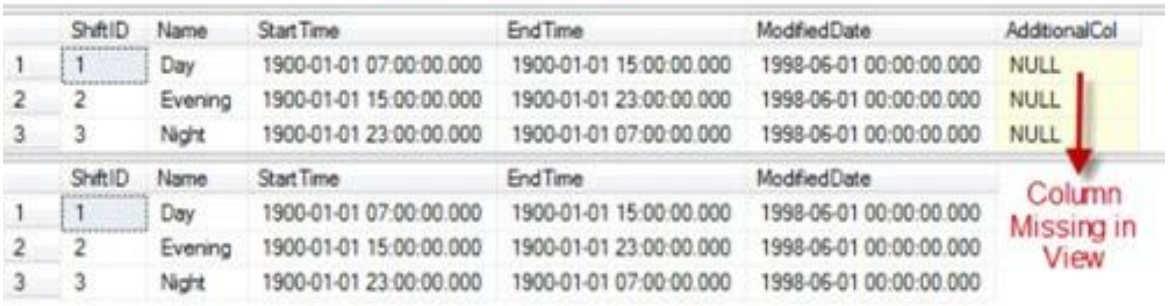
Run the following **T-SQL** script in SQL Server Management Studio **New Query Window**:

```
USE AdventureWorks
GO
IF EXISTS (SELECT * FROM sys.views WHERE OBJECT_ID =
OBJECT_ID(N'[dbo].[LimitView4]'))
DROP VIEW [dbo].[LimitView4]
GO


-- Create View
CREATE VIEW LimitView4
AS
SELECT *
FROM HumanResources.Shift
GO


-- Select from original table
SELECT *
FROM HumanResources.Shift
GO


-- Select from View
SELECT *
FROM LimitView4
GO


-- Add Column to original Table
ALTER TABLE HumanResources.Shift
ADD AdditionalCol INT
GO
```

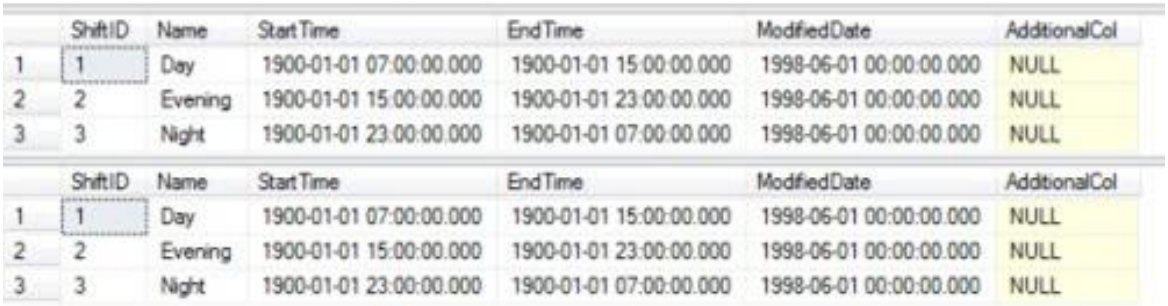
```
-- Select from original table
SELECT *
FROM HumanResources.Shift
GO


-- Select from View
SELECT *
FROM LimitView4
GO


-- Refresh the view
EXEC sp_refreshview 'LimitView4'
GO


-- Select from original table
SELECT *
FROM HumanResources.Shift
GO


-- Select from View
SELECT *
FROM LimitView4
GO


-- Clean up
ALTER TABLE HumanResources.Shift
DROP COLUMN AdditionalCol
GO
```

Above query will return following resultset….


Adding Column




SP_REFRESHVIEW



| | ShiftID | Name | StartTime | EndTime | ModifiedDate | AdditionalCol |
|---|---|---|---|---|---|---|
| 1 | 1 | Day | 1900-01-01 07:00:00.000 | 1900-01-01 15:00:00.000 | 1998-06-01 00:00:00.000 | NULL |
| 2 | 2 | Evening | 1900-01-01 15:00:00.000 | 1900-01-01 23:00:00.000 | 1998-06-01 00:00:00.000 | NULL |
| 3 | 3 | Night | 1900-01-01 23:00:00.000 | 1900-01-01 07:00:00.000 | 1998-06-01 00:00:00.000 | NULL |

| | ShiftID | Name | StartTime | EndTime | ModifiedDate | AdditionalCol |
|---|---|---|---|---|---|---|
| 1 | 1 | Day | 1900-01-01 07:00:00.000 | 1900-01-01 15:00:00.000 | 1998-06-01 00:00:00.000 | NULL |
| 2 | 2 | Evening | 1900-01-01 15:00:00.000 | 1900-01-01 23:00:00.000 | 1998-06-01 00:00:00.000 | NULL |
| 3 | 3 | Night | 1900-01-01 23:00:00.000 | 1900-01-01 07:00:00.000 | 1998-06-01 00:00:00.000 | NULL |

The same *limitation exits in the case of deleting the column* as well. This is a very well-known issue with the **Views**. The resolutions of these issues are as follows:

1. Refresh the views using **sp_refreshview** stored procedure
2. Do not use **SELECT *** but use **SELECT** column-names ;
3. Create view with **SCHEMABINDING**; this way, the underlying table will not get modified.