```sql
--1) History Table Trigger with a column that stores value for delete or update
CREATE TRIGGER dml_TreatmentAdministration_Delete_Trigger
ON TreatmentAdministration
FOR Delete
AS
INSERT INTO TreatmentAdministrationUpdatedDeletedRows
(patientNo, doctorID, treatmentNo, dateTime, results, action)

    SELECT patientNo, doctorID, treatmentNo, dateTime, results, 'DELETED'
    from deleted

CREATE TRIGGER dml_TreatmentAdministration_Update_Trigger
ON TreatmentAdministration
FOR Update
AS
INSERT INTO TreatmentAdministrationUpdatedDeletedRows
(patientNo, doctorID, treatmentNo, dateTime, results, action)

    SELECT patientNo, doctorID, treatmentNo, dateTime, results, 'UPDATED'
    from inserted

DELETE FROM TreatmentAdministration
WHERE patientNo=2

UPDATE TreatmentAdministration
SET doctorID=3
WHERE doctorID=4

SELECT *
FROM TreatmentAdministrationUpdatedDeletedRows
```

100 % ▾

⊞ Results 📄 Messages

	patientNo	doctorID	treatmentNo	dateTime	results	action
1	2	2	3	2024-02-02 09:45:20.000	Improving	DELETED
2	4	3	5	2024-02-04 11:55:10.000	Critical	UPDATED

```sql
-- Creating a view
create view Treatment_Administration_History_Table_VIEW
AS
SELECT * FROM TreatmentAdministrationUpdatedDeletedRows

SELECT *
FROM Treatment_Administration_History_Table_VIEW
where action = 'UPDATED'
```

100 % ▾

⊞ Results 📄 Messages

	patientNo	doctorID	treatmentNo	dateTime	results	action
1	4	3	5	2024-02-04 11:55:10.000	Critical	UPDATED

- ⊟ ▦ dbo.TreatmentAdministration
  - ⊞ ◼ Columns
  - ⊞ ◼ Keys
  - ⊞ ◼ Constraints
  - ⊟ ◼ Triggers
    - ◻ dml_TreatmentAdministration_Delete_Trigger
    - ◻ dml_TreatmentAdministration_Update_Trigger
  - ⊞ ◼ Indexes
  - ⊞ ◼ Statistics
- ⊞ ▦ dbo.TreatmentAdministrationUpdatedDeletedRows
- ⊞ ▦ dbo.Ward
- ⊟ ◼ Views
  - ⊞ ◼ System Views
  - ⊞ ▤ dbo.Treatment_Administration_History_Table_VIEW

```sql
--2) Delete Trigger
CREATE TRIGGER NursePatient_Delete_Trigger
ON NursePatient
For Delete
AS
INSERT INTO NursePatientDeletedRows (eventID, event, date, time, patientNo, nurseID)
Select eventID, event, date, time, patientNo, nurseID
from deleted

delete NursePatient
WHERE eventID=19

SELECT *
FROM NursePatientDeletedRows
```

100 % ▾ ◀

▦ Results ▤ Messages

	eventID	event	date	time	patientNo	nurseID
1	19	wellness check	2024-02-10	08:30:14.0000000	10	1

```sql
--3) Update Trigger
CREATE TRIGGER NursePatient_Update_Trigger
ON NursePatient
For Update
AS
INSERT INTO NursePatientUpdatedRows (eventID, event, date, time, patientNo, nurseID)
SELECT eventID, event, date, time, patientNo, nurseID
from inserted

update NursePatient
SET nurseID=4
WHERE eventID=7

SELECT *
FROM NursePatientUpdatedRows
```

- dbo.NursePatient
  - Columns
  - Keys
  - Constraints
  - Triggers
    - NursePatient_Delete_Trigger
    - NursePatient_Update_Trigger
  - Indexes
  - Statistics
- dbo.NursePatientDeletedRows
- dbo.NursePatientUpdatedRows

100 %

▦ Results ▦ Messages

	eventID	event	date	time	patientNo	nurseID
1	7	wellness check	2024-02-04	08:15:49.0000000	4	4

```sql
--4) Instead Of Trigger
CREATE TRIGGER dml_delete_patient
ON Patient
INSTEAD OF DELETE
AS
PRINT 'You should never delete rows of patients.'
rollback

DELETE Patient
WHERE patientNo=10
```

100 %

▦ Messages

```
You should never delete rows of patients.
```

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