

## قسمت اول: View

View با نام ViewUniversity می سازیم.

```

/***** Script for SelectTopNRows command from SSMS *****/
ALTER view [dbo].[ViewUniversity]
as
select FirstName,LastName,Title,CASE
when Grade < 10 Then 'FAIL'
when Grade >= 10 Then 'PASS'
END AS 'Grade'
from Taken_Courses join Courses on Taken_Courses.CourseID = Courses.ID
join Students on Taken_Courses.StudentID = Students.StudentNumber
GO

```

آن را با استفاده از دستور زیر اجرا می کنیم.

```

select * from ViewUniversity

```

	FirstName	LastName	Title	Grade
1	Ali	Mohammadi	Micro Processor	PASS
2	Ali	Ahmadi	Programming	PASS
3	Ali	Hosseini	Programming	PASS
4	Ali	Mohammadi	Programming	PASS
5	Ali	Mohammadi	Database Laboratory	PASS
6	Ali	Mohammadi	Operating System	FAIL
7	Ali	Jamali	Polymer	FAIL
8	Ali	Khalili	Polymer	PASS
9	Ali	Khalili	Pharmaceutical Chemistry	FAIL
10	Ali	Khalili	Laboratory Chemistry	PASS
11	Ali	Modiri	Math1	PASS

## قسمت دوم کار با Trigger

ابتدا جدولی به نام CourseLogs با دو فیلد char(1) و DateTime ساختیم

سپس CourseLogs Trigger را به صورت زیر ایجاد کردم.

```

-- =====
CREATE TRIGGER CouseLogs
ON dbo.Courses
AFTER INSERT,DELETE,UPDATE
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;
DECLARE @action as char(1);

SET @action = 'I'; -- Set Action to Insert by default.
IF EXISTS(SELECT * FROM DELETED)
BEGIN
SET @action =
CASE
WHEN EXISTS(SELECT * FROM INSERTED) THEN 'U' -- Set Action to Updated.
ELSE 'D' -- Set Action to Deleted.
END
END
INSERT INTO CourseLogs(Kind,Time) Values(@action,CURRENT_TIMESTAMP)
--ELSE
-- IF NOT EXISTS(SELECT * FROM INSERTED) RETURN; -- Nothing updated or inserted.
---- Insert statements for trigger here
END
GO

```

برای تست Trigger یک ردیف در جدول Course ایجاد سپس ویرایش و در نهایت ردیف را پاک کردم.

```

/***** Script for SelectTopNRows command from SSMS ***
SELECT TOP (1000) [Kind]
, [Time]
FROM [University].[dbo].[CourseLogs]

```

100 %

Results Messages

	Kind	Time
1	I	2020-05-19 05:26:50.077
2	U	2020-05-19 05:33:21.453
3	D	2020-05-19 05:33:46.870