

Employee Name	Designation	Grade Level	Site Name	Location	Start Date
Mr. T	Crusher	A	CSFP	1000 Feet on hill,ctg	1-Jan-16
			CSFP	1000 leage Under Sea	27-Mar-16
Mr. F	Fitter	B	CSFP	1000 Feet on hill,ctg	1-Jan-16
			SSPF	Up in sky, Dhk	11-Jul-16

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CREATE DATABASE lhmullah
GO
USE lhmullah
GO
CREATE TABLE ProjectSite
(
SiteID INT NOT NULL PRIMARY KEY,
SiteName VARCHAR (30) NOT NULL,
LocationName VARCHAR (60) NOT NULL,
StartDate DATE NOT NULL
)
GO
CREATE TABLE Employees
(
EmployeeID INT NOT NULL PRIMARY KEY,
EmployeeName VARCHAR(30) NOT NULL,
Designation Varchar(30) NOT NULL,
GradeLevel Varchar (20) NOT NULL
)
GO
Create Table EmployeeSite
(
EmployeeID INT NOT NULL REFERENCES Employees (EmployeeID),
SiteID INT NOT NULL REFERENCES ProjectSite (SiteID),
Primary Key (EmployeeID,SiteID)
)
GO

INSERT INTO ProjectSite
VALUES
(1, 'CSFP', '1000, FEET on hill, ctg', '2016-01-01'),
(2, 'CFPC', '100, Leage under sea', '2016-03-27'),
(3, 'SSPF', 'Up in Sky, Dhk', '2016-07-11')
GO

INSERT INTO Employees
VALUES
(101, 'MR. T', 'Crusher', 'A'),
(102, 'MR. F', 'Fitter', 'B')
GO

INSERT INTO EmployeeSite
VALUES
(101, 1),
(101, 2),
(102, 1),
(102, 3)
GO

CREATE VIEW vEmployeeSit
as
SELECT e.EmployeeName, e.GradeLevel, e.Designation, e.EmployeeID, ps.SiteName
FROM Employees e
INNER JOIN EmployeeSite es
ON e.EmployeeID = es.EmployeeID
INNER JOIN ProjectSite ps

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ON es.SiteID = ps.SiteID
GO
SELECT * FROM vEmployeeSit
GO

CREATE proc sp_projectDetails
@ID INT
AS
SELECT e.EmployeeName, e.GradeLevel, e.Designation, e.EmployeeID, ps.SiteName
FROM Employees e
INNER JOIN EmployeeSite es
ON e.EmployeeID = es.EmployeeID
INNER JOIN ProjectSite ps
ON es.SiteID = ps.SiteID
WHERE e.EmployeeID = @ID
GO

EXEC sp_projectDetails 101
GO

--Scaler--
Alter FUNCTION fn_Sitename(@sitid int)
RETURNS VARCHAR (30)
AS
BEGIN
    DECLARE @Sitename VARCHAR (30)
    Select @Sitename = SiteName from ProjectSite
    -- টেবিল থেকে আনতে গেলে সিলেক্ট কিন্তু কেল্কুলেটেড ভ্যালু বের করতে SET ব্যবহার করতে হবে
    RETURN @Sitename
END
GO
SELECT dbo.fn_Sitename (1)
GO

CREATE trigger trInsertInto
ON Employees
FOR INSERT
AS
BEGIN
    Declare @EmployeeID int, @EmployeeName VARCHAR(30), @Designation Varchar(30)
    Select @EmployeeID = EmployeeID, @EmployeeName = EmployeeName From inserted
    If @Designation is Null
    Begin
        Raiserror ('Designation is not to be Null', 11, 1)
        Rollback Transaction
    END
END
GO

CREATE INDEX Ix_Employee
ON Employees (EmployeeID)
GO
EXEC sp_helpindex Employees
GO

```