

Use [AdventureWorks2012](#) Database for doing the following works:

1. Create a view to find customer information.
2. Create a stored procedure to insert data into EmployeePayHistory. Use Try...Catch construct.
3. Create a SCALAR FUNCTION to get login ID from National ID.
4. Create a TABLE-VALUED function to find information of person from last and first name.
5. Create a Trigger on ProductInventory to protect reducing stock 50% or more at once.

```
USE [AdventureWorks2012]
GO
```

```
CREATE VIEW vCustomerInfo
AS
SELECT p.*
FROM Sales.Customer c
INNER JOIN Person.Person p
ON c.PersonID = p.BusinessEntityID
GO
```

```
SELECT * FROM vCustomerInfo
GO
```

```
CREATE PROC AddPaymentHistory @i INT, @r DATETIME, @t MONEY, @f TINYINT , @m DATETIME
AS
BEGIN TRY
    INSERT INTO HumanResources.EmployeePayHistory
    VALUES (@i, @r, @t, @f, @m)
END TRY
BEGIN CATCH
    RAISERROR ('Error no %sd', 11, 1, @@ERROR)
END CATCH
GO
```

```
CREATE FUNCTION fnGetLoginID(@nid NVARCHAR(15)) RETURNS NVARCHAR(256)
AS
BEGIN
    DECLARE @l NVARCHAR(256)
    SELECT @l = loginid from HumanResources.Employee
    WHERE NationalIDNumber = @nid
    RETURN @l
END
GO
```

```
CREATE FUNCTION fnGetName(@id INT ) RETURNS TABLE
AS
RETURN
(
    SELECT FirstName, LastName FROM Person.Person WHERE BusinessEntityID=@id
)
GO
```

```
CREATE TRIGGER trUPDATE
ON [Production].[ProductInventory]
FOR UPDATE
```

```
AS
DECLARE @o INT, @n INT
SELECT @o = quantity FROM deleted
SELECT @n = quantity FROM inserted

IF @n <= @o/2
BEGIN
    RAISERROR ('Cannot reduce 50% or more', 11, 1)
    ROLLBACK
END

GO
```