

```
USE AdventureWorks2012
GO
```

```
----Question 1. : Use AdventureWorks2012 And Create a
stored procedure
-- to insert data into EmployeePayHistory. Use
Try...Catch construct-----
---ANSWER::----
```

```
CREATE PROC spInsertDataOnEmployeePayHistory
@bId int,
@rcd datetime,
@r money,
@pf tinyint,
@md datetime
AS
```

```
BEGIN TRY
INSERT INTO HumanResources.EmployeePayHistory
VALUES
(@bId,@rcd,@r,@pf,@md)
END TRY
```

```
BEGIN CATCH
RAISERROR('ERROR ON %SD',16,1)
END CATCH
GO
```

```
--TESTING PROCDURES--
EXEC spInsertDataOnEmployeePayHistory 5,'6-6-
2017',123.50,2,'8-5-2018'
GO
```

----Question 2. : Use AdventureWorks2012 And Create a
SCALAR FUNCTION
--to get login ID from National ID.-----
---ANSWER::----

```
CREATE FUNCTION fnGetLogInID(@nid NVARCHAR(15))  
RETURNS NVARCHAR(256)  
AS
```

```
BEGIN  
DECLARE @lid NVARCHAR(256)  
SELECT @lid = loginid  
FROM HumanResources.Employee  
WHERE NationalIDNumber = @nid  
RETURN @lid  
END  
GO
```

```
--TESTING SCALAR FUNCTION--  
SELECT dbo.fnGetLogInID ('879342154')  
AS 'LOG IN ID'  
GO
```

----Question 3. : Use AdventureWorks2012 And Create a
TABLE-VALUED function
-- to find information of last and first name person
from -----
---ANSWER::----

```
CREATE FUNCTION fnFindPersonInfo(@bid INT)  
RETURNS TABLE  
AS
```

```
RETURN
(
SELECT FirstName, LastName
  FROM Person.Person
 WHERE BusinessEntityID = @bid
)
GO
```

--TESTING TABLE-VALUED FUNCTION--

```
SELECT * FROM dbo.fnFindPersonInfo(56)
GO
```

----Question 4. : Use AdventureWorks2012 And Create a
Trigger on ProductInventory

--to protect reducing stock 50% or more at once. ----

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---ANSWER::----

```
CREATE TRIGGER trUpdateProductInventory
ON Production.ProductInventory
AFTER UPDATE
AS
```

```
DECLARE @oq INT, @nq INT
SELECT @oq = Quantity
FROM deleted
SELECT @nq = Quantity
FROM inserted
IF @nq <=@oq/2
```

```
BEGIN
RAISERROR('Can not reduce stock fifty percent or
more',16,1)
```

```
ROLLBACK  
END  
GO
```

```
--TESTING Trigger--
```

```
UPDATE Production.ProductInventory  
SET Quantity = 100  
WHERE ProductID IN(1,2,3)  
GO
```

```
--DROP Trigger dbo.trUpdateProductInventory
```

```
--SELECT * FROM Production.ProductInventory
```