SQL ESSENTIALS

Module 5: Create Advance Database Objects

Assignment Solution

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Assignment Solution

Q1: Execute the following in SQL

- Create Functions
- Create Triggers
- Create and Execute Stored Procedure

Create Functions

```
USE [empDB]
GO
CREATE FUNCTION [dbo].[ufn_GetEmployeeInfo](@DeptID INTEGER)
RETURNS @retGetEmployeeInfo TABLE
 EmployeeID int primary key NOT NULL,
 FirstName nvarchar(255) NOT NULL,
 LastName nvarchar(255) NOT NULL,
 Deptno INT NOT NULL
AS
BEGIN
INSERT @retGetEmployeeInfo
SELECT [emp_id]
  [first_name]
  ,[last_name]
  ,[deptno]
FROM [empDB] [dbo] [employee]
WHERE deptno = @DeptID
 RETURN
END;
Execute:
USE [empDB]
```

GO

SELECT EmployeeID, FirstName, LastName, Deptno FROM ufn_GetEmployeeInfo(10);

Create Triggers

```
CREATE TRIGGER trg_employee
 ON employee
 AFTER INSERT
AS
BEGIN
  -- SET NOCOUNT ON added to prevent extra result sets from
  -- interfering with SELECT statements.
    SET NOCOUNT ON;
  -- Insert statements for trigger here
    INSERT INTO [employeeaudit](
   [emp_id]
  [first_name]
  ,[last_name]
  ,[mgr_id]
  ,[phone_number]
  ,[hire_date]
  ,[job_id]
  ,[deptno]
     machinename
  serverName
  ,[InsertTime])
    SELECT [emp_id]
            [first_name]
            ,[last_name]
            ,[mgr_id]
            ,[phone_number]
            ,[hire_date]
            ,[job_id]
            ,[deptno]
           ,CAST( SERVERPROPERTY('MachineName') AS VARCHAR(50))
           ,CAST( SERVERPROPERTY('ServerName') AS VARCHAR(50))
           ,GETDATE()
    FROM INSERTED;
END
GO
```

• Create and Execute Stored Procedure

```
USE [empDB]
GO
CREATE PROCEDURE [dbo].[sp_GetEmployeeInfo]( @empid INT)
AS
BEGIN
SELECT[emp_id]
  [first_name]
  ,[last_name]
  ,[mgr_id]
  ,[phone_number]
  ,[hire_date]
  ,[job_id]
  ,[deptno]
FROM [empDB].[dbo].[employee]
WHERE emp_id = @empid
END
Execution:
USE [empDB]
GO
DECLARE @return_value int
EXEC @return_value = [dbo].[GetEmployeeInfo]
@empid = 1001
SELECT 'Return Value' = @return_value
```