# Scenario 1

**Description:**

I began by using the pre-built **Project2Build.sql** code to create two prototype inputs through **the usp\_InsertProcedure**, adding two new employee records. Afterward, I backed up the database, overwriting any existing backups. With the baseline established, I restored the database and completed all required scenarios. Finally, I made a final backup, named **HumanResourcesFinal.bak**, ensuring that all tables, values, triggers, and procedures were intact.

**Screenshots:**

*A screenshot of a computer

AI-generated content may be incorrect.HumanResourcesBaseline.bak*

*A screenshot of a computer

AI-generated content may be incorrect.HumanResourcesFinal.bak*

# Scenario 2

**Description:**

I created a new employee record using the **usp\_InsertEmployee** stored procedure with details for **Brian Cox**. After running the insert, I verified the entry with a **SELECT query** on t**blEmployee**. The **CreateDate** and **CreateBy** fields were automatically populated with the current date and my username, while the **ModifyDate** and **ModifyBy** fields remained empty, since no updates had been made yet.

**Screenshots:**



# Scenario 3

**Description:**

I updated an existing employee record using the **usp\_UpdateEmployee** stored procedure, changing the details for the employee with **EmployeeID = 6**. After the update, I ran a **SELECT** query to verify the changes. The **ModifyDate** and **ModifyBy** fields were automatically populated with the **current date** and **my username**, showing when the modification was made and who made it. These fields now reflect the **update** to the employee's information.

**Screenshots:**





# Scenario 4

**Description:**

After modifying the employee record with **EmployeeID = 6**, I ran a **SELECT** query to check the **CreatedDate**, **CreatedBy**, **ModifiedDate**, and **ModifiedBy** fields. The **CreatedDate** and **CreatedBy** values remained unchanged, confirming that the original creation details were preserved. Only the **ModifiedDate** and **ModifiedBy** fields were updated to reflect the most recent changes I made.

**Screenshots:**

# Scenario 5

**Description:**

In this scenario, I deleted the employee record with **EmployeeID = 6** using the **usp\_DeleteEmployee** stored procedure. Instead of physically removing the record, the **EmployeeActiveFlag** was set to **0**, marking the employee as inactive. I verified this with a **SELECT** query on **tblEmployee**. This approach keeps the record in the database for historical tracking. I also checked **tblEmployeeHistory** to confirm that the employee’s data was copied there before the logical deletion.

**  
Screenshots:**



# Scenario 6

**Description:**

In this scenario, I demonstrated how employee history is captured through **CRUD operations** using the corresponding **stored procedures**. I inserted and then updated records for **three different employees** using **usp\_InsertEmployee** and **usp\_UpdateE-mployee**. After each update, I verified that the changes were recorded in the **tblEmplo-yeeHistory** table for auditing purposes. For example, I inserted a record for Jane Smith (EmployeeID = **7**) and updated her first name and middle initial. I repeated this process for employees with **EmployeeID = 8** and **9**, confirming each time that the update was properly logged. These steps show that every create and update action is being **tracked and stored** to maintain a complete audit trail.

**Screenshots:**

**Employee Example 1:**

*After Update in Employee Table:*

****

*After Update in Employee History Table:*

****

**Employee Example 2:**

**Employee Example 2:**

*After Update in Employee Table:*



*After Update in Employee History Table:*



**Employee Example 3:**

*After Update in Employee Table:*



*After Update in Employee History Table:*



# Scenario 7

**Description:**

In this scenario, I performed **multiple updates** on the same employee record with **EmployeeID = 6**, changing different fields in each update. I first modified the **middle initial** and **employee number**, then updated the **SSN** and cleared the middle initial. After each update using the **usp\_UpdateEmployee** stored procedure, the **ModifyDate** and **ModifyBy** fields were automatically updated with the **current date** and **my username**. I verified the update history by querying the **tblEmployeeHistory** table, confirming that each version of the record was captured for tracking. The latest changes were also reflected in the **tblEmployee** table.

**Screenshots:**

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a phone

AI-generated content may be incorrect.

***Latest Update that is shown in tblEmployeeId***

