**Assignment**

**Trigger**

**Problem Statement:**

Create a trigger to fire the already created stored procedure on insertion of a new row in the employee SRC table.

**Technology Tools:**

SAP Hana

**Steps:**

1.Create three tables and name it as “SOURCE\_EMPLOYEE”, “STAGE\_EMPLOYEE” and “ERROR\_EMPLOYEE”

create schema DILab

CREATE TABLE DILab.SHATAJ\_SOURCE\_EMPLOYEE(

    EMPLOYEE\_ID int NOT NULL PRIMARY KEY,

    FIRST\_NAME varchar(20),

    LAST\_NAME varchar(25) NOT NULL,

    EMAIL varchar(25),

    PHONE\_NUMBER varchar(20),

    HIRE\_DATE date NOT NULL,

    SALARY decimal(8,2),

    DEPTNO decimal(4,0)

);

SELECT \* FROM DILab.SHATAJ\_SOURCE\_EMPLOYEE;

CREATE TABLE DILab.SHATAJ\_STAGE\_EMPLOYEE(

    EMPLOYEE\_ID int NOT NULL PRIMARY KEY,

    FIRST\_NAME varchar(20),

    LAST\_NAME varchar(25) NOT NULL,

    EMAIL varchar(25),

    PHONE\_NUMBER varchar(20),

    HIRE\_DATE date NOT NULL,

    SALARY decimal(8,2),

    DEPTNO decimal(4,0)

);

SELECT \* FROM DILab.SHATAJ\_STAGE\_EMPLOYEE;

CREATE TABLE DILab.SHATAJ\_ERROR\_EMPLOYEE(

    EMPLOYEE\_ID int NOT NULL PRIMARY KEY,

    FIRST\_NAME varchar(20),

    LAST\_NAME varchar(25) NOT NULL,

    EMAIL varchar(25),

    PHONE\_NUMBER varchar(20),

    HIRE\_DATE date NOT NULL,

    SALARY decimal(8,2),

    DEPTNO decimal(4,0)

);

2. After creating table, insert values into “SOURCE\_EMPLOYEE” table and keep other two tables as empty

INSERT INTO DILab.SHATAJ\_SOURCE\_EMPLOYEE

VALUES (1,'David','Talyor',NULL,'1234564568','1990/11/07',17000,101);

INSERT INTO DILab.SHATAJ\_SOURCE\_EMPLOYEE

VALUES (2,'John','Marry','john@test.com','1234564888','1995/10/01',NULL,102);

INSERT INTO DILab.SHATAJ\_SOURCE\_EMPLOYEE

VALUES (3,'Neena','Kochhar',NULL,'1674564568','1998/10/01',19000,103);

INSERT INTO DILab.SHATAJ\_SOURCE\_EMPLOYEE

VALUES (4,'Lex','De Haan','lex@test.com','154564569','1998/12/09',NULL,104);

INSERT INTO DILab.SHATAJ\_SOURCE\_EMPLOYEE

VALUES (5,'Lee','Aan','lee@test.com','1645640569','1994/12/09',22000,105);

INSERT INTO DILab.SHATAJ\_SOURCE\_EMPLOYEE

VALUES (6,'Athira','k',NULL,'1645640569','1998/09/14',25000,106);

INSERT INTO DILab.SHATAJ\_SOURCE\_EMPLOYEE

VALUES (7,'Archana','V',NULL,'1645640569','1990/09/19',28000,107);

INSERT INTO DILab.SHATAJ\_SOURCE\_EMPLOYEE

VALUES (8,'Savio','B','savio@test.com','1689640569','1998/09/21',24000,108);

INSERT INTO DILab.SHATAJ\_SOURCE\_EMPLOYEE

VALUES (9,'Hari','M','hari@test.com','9876543210','1999/05/13',19000,109);

INSERT INTO DILab.SHATAJ\_SOURCE\_EMPLOYEE

VALUES (10,'Achu','C','achu@test.com','1645640569','1994/12/09',NULL,110);

3. After inserting values into table, create a stored procedure which will perform DQ Check on source employee table. Ingest passed data to “STAGE\_EMPLOYEE” table and failed data into “ERROR\_EMPLOYEE” table.

Here DQ Check is applied on EMAIL and SALARY whether these are null or not.

CREATE OR REPLACE PROCEDURE DILab.SP\_GET\_DATA

AS

BEGIN

INSERT INTO DILab.SHATAJ\_ERROR\_EMPLOYEE

SELECT \* FROM DILab.SHATAJ\_SOURCE\_EMPLOYEE

WHERE EMAIL IS NULL OR SALARY IS NULL;

INSERT INTO DILab.SHATAJ\_STAGE\_EMPLOYEE

SELECT \* FROM DILab.SHATAJ\_SOURCE\_EMPLOYEE

WHERE EMAIL IS NOT NULL AND SALARY IS NOT NULL;

END;

4. Create a trigger which fires the already created stored procedure on insertion of a new row in the employee SRC table.

CREATE or REPLACE TRIGGER DILab.ValidateDataAfterInsert   
AFTER INSERT ON DILab.Shataj\_SOURCE\_EMPLOYEE  
FOR EACH ROW  
BEGIN  
    CALL DILab.Getproduct9();  
END;

INSERT INTO DILab\_SHATAJ\_SOURCE\_EMPLOYEE VALUES(5,'Shataj','Kankeal','shataj@test.com','6303936118','2023/07/23',32000,106);

Output:

