## How MERGE Actions are implemented

```
-- A MERGE Statement Example
MERGE INTO MyProducts MP
USING Products Prod
ON MP.Product PK = Prod.ProductID
WHEN MATCHED AND (MP.Product_PK % 10 = 0) THEN
           DELETE
WHEN MATCHED THEN
           UPDATE SET
                price = Prod.UnitPrice
                SupplierID = Prod.SupplierID
WHEN NOT MATCHED THEN
           INSERT
                      (Product_PK, ProdName, SupplierID, Price)
           VALUES
                      (Prod.ProductID, Prod.ProductName
                      ,Prod.SupplierID, Prod.UnitPrice);
```

## How MERGE Statement is implemented

```
MERGE INTO MyProducts MP
USING Products Prod
ON MP.Product PK = Prod.ProductID
WHEN MATCHED AND (MP. Product PK % 10 = 0) THEN
           DELETE
DELETE MyProducts
FROM MyProducts MP
JOIN Products Prod
ON MP.ProductID = Prod.ProductID
WHERE MP.Product PK % 10 = 0;
WHEN MATCHED THEN
          UPDATE SET
                price = Prod.UnitPrice
                ,SupplierID = Prod.SupplierID
UPDATE MyProducts
SET MP.Price = Prod.UnitPrice, MP.SupplierID = Prod.SupplierID
FROM MyProducts MP
JOIN Products Prod
ON MP.ProductID = Prod.ProductID;
WHEN NOT MATCHED THEN
           INSERT
                      (Product PK, ProdName, SupplierID, Price)
           VALUES
                      (Prod.ProductID, Prod.ProductName
                      ,Prod.SupplierID, Prod.UnitPrice)
INSERT INTO MyProducts (Product PK, ProdName, SupplierID, Price)
SELECT ProductID, ProductName, SupplierID, UnitPrice
FROM Products
WHERE ProductID NOT IN (SELECT ProductID from MyProducts
  UNION SELECT ProductID from deleted)
```

```
USE Northwind;
-- Create MyProducts demo table.
CREATE TABLE MyProducts
 Product PK INT NOT NULL
  , ProdName NVARCHAR(80) NOT NULL
  ,SupplierID INT NULL
 ,Price MONEY NULL
/* Insert only even numbered rows from the Products table into
MyProducts. */
INSERT INTO MyProducts
           (Product PK, ProdName, SupplierID, Price)
SELECT ProductID, ProductName, NULL, NULL
FROM Products
WHERE ProductID % 2 = 0
ORDER BY ProductID;
-- Verify contents of the demo table before MERGE.
SELECT * FROM MyProducts;
```