```
-- Search and insert newly added customer into staging added Customer table
INSERT INTO StagingDatabase.staging.stage dim customer added(customer id, title, first name, middle name,
last name)
SELECT CustomerID, Title, FirstName, MiddleName, LastName
FROM AdventureWorks2017.Sales.Customer JOIN AdventureWorks2017.Person.Person ON Customer.PersonID =
Person.BusinessEntityID
WHERE CustomerID IN (SELECT CustomerID
                     FROM AdventureWorks2017.Sales.Customer
                         EXCEPT
                     SELECT customer id
                     FROM StagingDatabase.staging.stage dim customer);
-- Replace all NULL values with current date
UPDATE StagingDatabase.staging.stage dim customer added
SET valid_from = GETDATE()
WHERE valid_to IS NULL;
-- Replace all NULL values with date 31.12.9999
UPDATE StagingDatabase.staging.stage_dim_customer_added
SET valid to = '9999-12-31
WHERE valid to IS NULL;
-- Load newly added and modified rows into the Data Warehouse
INSERT INTO AdventureWorks_DW.star_schema.d_customer
SELECT *
FROM StagingDatabase.staging.stage_dim_customer_added;
-- Retrieve and update data warehouse, set valid_to attribute to yesterdays date for deleted
-- customers.
UPDATE AdventureWorks_DW.star_schema.d_customer
SET valid to = DATEADD(dd, -1, GETDATE())
WHERE customer id IN (
    SELECT customer id
    FROM AdventureWorks_DW.star_schema.d_customer
    WHERE customer_id IN (SELECT customer_id
                         FROM AdventureWorks_DW.star_schema.d_customer
                             EXCEPT
                         SELECT CustomerID
                         FROM AdventureWorks2017.Sales.Customer)
)
-- Inserting updated rows into the temporary table to handle changes
INSERT INTO StagingDatabase.staging.stage dim customer changed
    (customer_id, title, first_name,middle_name,last_name) (SELECT CustomerID,Title, FirstName,
MiddleName, LastName
                                    FROM AdventureWorks2017.Sales.Customer
                                    JOIN AdventureWorks2017.Person.Person ON Customer.PersonID =
Person.BusinessEntityID
                                         EXCEPT
                                    SELECT customer id, title, first name, middle name, last name
                                    FROM StagingDatabase.staging.stage dim customer
                                         EXCEPT (
                                              SELECT CustomerID, Title, FirstName, MiddleName, LastName
                                              FROM AdventureWorks2017.Sales.Customer
                                              JOIN AdventureWorks2017.Person.Person ON Customer.PersonID =
Person.BusinessEntityID
                                              WHERE CustomerID IN
                                                    (SELECT CustomerID
                                                     FROM AdventureWorks2017.Sales.Customer
                                                         EXCEPT
                                                     SELECT customer id
                                                     FROM StagingDatabase.staging.stage_dim_customer)
                                          ));
-- Update valid_to attribute to '9999-12-31'
```

```
UPDATE StagingDatabase.staging.stage_dim_customer_changed
SET valid from = GETDATE()
WHERE valid_from IS NULL;
-- Update title attribute to 'N/A'
UPDATE StagingDatabase.staging.stage_dim_customer_changed
SET valid_to = '9999-12-31
WHERE valid_to IS NULL;
-- Update middle_name attribute to 'N/A'
UPDATE StagingDatabase.staging.stage_dim_customer_changed
SET title = 'N/A'
WHERE title IS NULL;
-- Update valid_to attribute to 'N/A'
UPDATE StagingDatabase.staging.stage_dim_customer_changed
SET middle name = 'N/A
WHERE middle_name IS NULL;
-- Alter changed rows in Data Warehouse
UPDATE AdventureWorks_DW.star_schema.d_customer
SET valid to = DATEADD(dd, -1, GETDATE())
WHERE customer_id in (SELECT customer_id FROM StagingDatabase.staging.stage_dim_customer_changed);
-- Insert new customer to Data Warehouse
INSERT INTO AdventureWorks_DW.star_schema.d_customer
FROM StagingDatabase.staging.stage_dim_customer_changed;
```