```
************************
___ CUSTOMER __
--This statement inserts attribute values into staging dimension table stage_dim_customer
INSERT INTO StagingDatabase.staging.stage_dim_customer(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;
--This statement removes null values in the title attribute in stage dim customer table by replacing with
UPDATE StagingDatabase.staging.stage_dim_customer
SET title='N/A
WHERE title IS NULL;
--This statement removes null values in the middle name attribute in stage dim customer table by
replacing with 'N/A'
UPDATE StagingDatabase.staging.stage dim customer
SET middle name='N/A'
WHERE middle_name IS NULL;
-- Create new date for valid_from attribute. It will be the date when it was added to data warehouse
UPDATE StagingDatabase.staging.stage_dim_customer
SET valid_from=GETDATE()
WHERE valid_from IS NULL;
-- This statement replaces all NULL values with date 31.12.9999
UPDATE StagingDatabase.staging.stage dim customer
SET valid to='9999-12-31'
WHERE valid to IS NULL;
                  PRODUCT _____
--This statement inserts attribute values into staging dimension table stage_dim_product
INSERT INTO StagingDatabase.staging.stage_dim_product(product_id, name, valid_from, valid_to)
SELECT ProductID, Name, SellStartDate, SellEndDate
from AdventureWorks2017.Production.Product;
--This statement removes null values in the name attribute in stage dim product table by replacing with
'N/A'
UPDATE StagingDatabase.staging.stage_dim_product
SET name='N/A'
WHERE name IS NULL;
-- This statement replaces all NULL values with date 31.12.9999
UPDATE StagingDatabase.staging.stage dim product
SET valid to='9999-12-31'
WHERE valid to IS NULL;
                  DATE ____
--This statement inserts attribute values unto staging dimension table stage dim date
DECLARE @StartDate DATETIME = '2011-05-31
DECLARE @EndDate DATETIME = '2014-06-30'
WHILE @StartDate <= @EndDate
   BEGIN
       INSERT INTO StagingDatabase.staging.stage dim date (date,
                                                       day name,
                                                       month name)
       SELECT @StartDate,
```

```
DATENAME(weekday, @StartDate),
              DATENAME(month, @StartDate)
       SET @StartDate = DATEADD(dd, 1, @StartDate)
   END
  *************************************
-- ******* INSERTING FIXED DATA INTO DW DIMENSION TABLES *********
--This statement inserts attribute vales into dimension d product table
INSERT INTO AdventureWorks DW.star schema.d product (product id, name, valid from, valid to)
SELECT *
FROM StagingDatabase.staging.stage dim product;
--This statement inserts attribute vales into dimension d customer table
INSERT INTO AdventureWorks_DW.star_schema.d_customer (customer_id, title, first_name, middle_name,
last_name,
                                                   valid from, valid to)
SELECT *
FROM StagingDatabase.staging.stage dim customer;
--This statement inserts attribute vales into dimension d date table
INSERT INTO AdventureWorks_DW.star_schema.d_date (month_name, day_name, date)
SELECT *
FROM StagingDatabase.staging.stage_dim_date;
-- ******** INSERTING FIXED DATA INTO FACT TABLES ********
--This statement inserts attribute values into staging fact table stage f sales
INSERT INTO StagingDatabase.staging.stage f sales(business customer id, business product id,
business_order_date,
                                               quantity, line_total)
    (SELECT C.CustomerID, P.ProductID, OrderDate, SOD.OrderQty, SOD.LineTotal
    FROM AdventureWorks2017.Sales.SalesOrderHeader SOH
             JOIN AdventureWorks2017.Sales.SalesOrderDetail SOD on SOH.SalesOrderID = SOD.SalesOrderID
             JOIN AdventureWorks2017.Sales.Customer C on SOH.CustomerID = C.CustomerID
             JOIN AdventureWorks2017.Production.Product P on SOD.ProductID = P.ProductID
    WHERE OnlineOrderFlag = 1);
  ************************************
  ****************** LOOKUP SURROGATE KEYS *****************
  *************************************
--This statement extracts the customer id from staging dimension table stage dim customer and assigns it
-- customer_id attribute in stage_f_sales table when the value is null
UPDATE StagingDatabase.staging.stage f sales
SET customer id = (SELECT dimension customer id
                  FROM AdventureWorks_DW.star_schema.d_customer AS dim_C_id
                  WHERE dim C id.customer id = business customer id)
WHERE customer_id IS NULL;
--This statement extracts the product_id from staging dimension table stage_dim_product and assigns it to
-- product_id attribute in stage_f_sales table when the value is null
UPDATE StagingDatabase.staging.stage_f_sales
SET product_id = (SELECT dimension_product_id
                 FROM AdventureWorks_DW.star_schema.d_product AS dim_P_id
                 WHERE dim P id.product id = business product id)
WHERE product id IS NULL;
--This statement extracts the date_id from staging dimension table stage_dim_date and assigns it to the
```