```sql
-- *******************************************
-- *********** CREATING STAGE TABLES **********
-- *******************************************
--This statement creates staging dimension table stage_dim_customer with attributes and assigned primary key as customer_id
CREATE TABLE staging.stage_dim_customer
(
    dimension_customer_id INT NOT NULL IDENTITY,
    customer_id        INT NOT NULL,
    title           varchar(10),
    first_name          varchar(50),
    middle_name         varchar(50),
    last_name           varchar(50),
    PRIMARY KEY (customer_id)
);
--This statement creates staging dimension table stage_dim_product with attributes and assigned primary key as
dimension_product_id
CREATE TABLE staging.stage_dim_product
(
    dimension_product_id INT NOT NULL IDENTITY,
    product_id        INT,
    name            varchar(50),
    PRIMARY KEY (dimension_product_id)
);
--This statement creates staging dimension table stage_dim_date with attributes and assigned primary key as dimension_date_id
CREATE TABLE staging.stage_dim_date
(
    dimension_date_id INT  NOT NULL IDENTITY,
    month_name        varchar(10),
    day_name          varchar(10),
    date            DATETIME NOT NULL,
    PRIMARY KEY (dimension_date_id)
);

-- *********************************************************
-- *********** INSERTING DATA INTO STAGE TABLES **********
-- *********************************************************

-- _____ CUSTOMER _____

--This statement inserts attribute values into staging dimension table stage_dim_customer
INSERT INTO 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 'N/A'
UPDATE 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 staging.stage_dim_customer
SET middle_name='N/A'
WHERE middle_name IS NULL;

-- _____ PRODUCT _____

--This statement inserts attribute values into staging dimension table stage_dim_product
INSERT INTO staging.stage_dim_product(product_id, name)
SELECT ProductID, Name
from AdventureWorks2017.Production.Product;

--This statement removes null values in the name attribute in stage_dim_product table by replacing with 'N/A'
```

```sql
UPDATE staging.stage_dim_product
SET name='N/A'
WHERE name IS NULL;



-- _____ DATE _____

--This statement inserts attribute values unto staging dimension table stage_dim_date
INSERT INTO staging.stage_dim_date(date)
SELECT distinct OrderDate
from AdventureWorks2017.Sales.SalesOrderHeader;

--This statement extracts the date name and assigns it to the day_name attribute in stage_dim_date table when the value is null
UPDATE staging.stage_dim_date
SET day_name = DATENAME(weekday, date)
WHERE day_name IS NULL;

--This statement extracts the month name and assigns it to the month_name attribute in stage_dim_date table when the value is
null
UPDATE staging.stage_dim_date
SET month_name = DATENAME(month, date)
WHERE month_name IS NULL;

-- *******************************************************
-- ************ INSERTING DATA INTO FACT TABLES ************
-- *******************************************************

--This statement creates staging fact table stage_f_sales with attributes and assigned primary key as sales_id
CREATE TABLE staging.stage_f_sales
(
    sales_id            INT     NOT NULL IDENTITY,
    customer_id         INT     NULL,
    product_id          INT     NULL,
    date_id             INT     NULL,
    business_customer_id INT     NULL,
    business_product_id  INT     NULL,
    business_order_date  DATETIME NULL,
    quantity            INT     NULL,
    line_total          FLOAT   NULL,
    PRIMARY KEY (sales_id)
);

--This statement inserts attribute values into staging fact table stage_f_sales
INSERT INTO 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);

--This statement extracts the customer_id from staging dimesnsion table stage_dim_customer and assigns it to the customer_id
attribute in stage_f_sales table when the value is null
UPDATE staging.stage_f_sales
SET customer_id = (SELECT dimension_customer_id FROM staging.stage_dim_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 dimesnsion table stage_dim_product and assigns it to the product_id
attribute in stage_f_sales table when the value is null
UPDATE staging.stage_f_sales
SET product_id = (SELECT dimension_product_id FROM staging.stage_dim_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 dimesnsion table stage_dim_date and assigns it to the date_id attribute in
```

stage_f_sales table when the value is null

```sql
UPDATE staging.stage_f_sales
SET date_id = (SELECT dimension_date_id FROM staging.stage_dim_date AS dim_D_id WHERE dim_D_id.date =
business_order_date) WHERE date_id IS NULL;
```