


```

        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
to the
-- 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
the
-- 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

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```
-- date_id attribute in stage_f_sales table when the value is null
UPDATE StagingDatabase.staging.stage_f_sales
SET date_id = (SELECT dimension_date_id
               FROM AdventureWorks_DW.star_schema.d_date AS dim_D_id
               WHERE dim_D_id.date = business_order_date)
WHERE date_id IS NULL;

-- *****
-- ***** INSERT VALUES INTO DATA WAREHOUSE FACT TABLE *****
-- *****

INSERT INTO AdventureWorks_DW.star_schema.f_sales(customer_id, product_id, date_id, quantity, line_total)
SELECT customer_id, product_id, date_id, quantity, line_total
FROM StagingDatabase.staging.stage_f_sales;
```