

stage dim customer stage dim product customer id: int title: varchar(10) product_it : int first name : varchar(50) name: varchar(50) middle_name : varchar(50) valid from : datetime last name : varchar(50) valid to : datetime valid from : datetime valid to : datetime stage f sales customer id: int product id: int date id : int business customer id: int business_product_id : int business order id: int quantity: int line total : float stage dim date month name : varchar(10) day name: varchar(10) date: datetime

stage dim product added

product_id : int name : varchar(50) valid_from : datetime valid_to : datetime

stage dim product changed

product_id : int name : varchar(50) valid_from : datetime valid to : datetime

temp f sales

customer_id : int product_id : int date id : int

business_customer_id : int business_producit_id : int business order id : int

quantity: int line total: float

LastUpdate

{PK} lastUpdate : datetime

Create Star Schema Tables

--This statement creates dimension table d_customer with attributes and primary key is assigned to dimension_customer_id

```
CREATE TABLE AdventureWorks_DW.star_schema.d_customer
  dimension customer id INT
                               NOT NULL IDENTITY.
                         NOT NULL,
  customer_id
                 INT
             varchar(10) NOT NULL,
 title
                varchar(50) NOT NULL,
 first name
  middle_name
                   varchar(50) NOT NULL,
 last name
                varchar(50) NOT NULL,
                 DATETIME NOT NULL,
 valid from
               DATETIME NOT NULL,
  valid to
  PRIMARY KEY (dimension_customer_id)
CREATE TABLE AdventureWorks_DW.star_schema.d_price_range
 dimension_price_range_id INT IDENTITY,
                  decimal(10, 2),
 start_price
 end_price
                  decimal(10, 2),
 PRIMARY KEY (dimension_price_range_id)
--This statement creates dimension table d_product with attributes and primary key is assigned to dimension_product_id
CREATE TABLE AdventureWorks_DW.star_schema.d_product
 dimension_product_id INT
                              NOT NULL IDENTITY.
 product id
                INT
                       NOT NULL.
 price_range_id INT
                         NOT NULL,
              varchar(50) NOT NULL,
 name
  valid_from
                DATETIME NOT NULL,
  valid to
               DATETIME NOT NULL,
  PRIMARY KEY (dimension product id),
  FOREIGN KEY (price_range_id) REFERENCES AdventureWorks_DW.star_schema.d_price_range (dimension_price_range_id)
--This statement creates dimension table d_date with attributes and primary key is assigned to dimension_date_id
CREATE TABLE AdventureWorks_DW.star_schema.d_date
  dimension_date_id INT
                           NOT NULL IDENTITY,
                 varchar(10) NOT NULL,
  month_name
               varchar(10) NOT NULL,
 day_name
            date
                   NOT NULL,
 PRIMARY KEY (dimension_date_id)
--This statement creates fact table f_sales with attributes, primary key is assigned to sales_id and foreign keys customer_id,
CREATE TABLE AdventureWorks_DW.star_schema.f_sales
 sales_id INT NOT NULL IDENTITY.
 customer_id INT NOT NULL,
  product_id INT NOT NULL,
 date_id INT NOT NULL,
 quantity INT NOT NULL,
 line_total INT NOT NULL,
  PRIMARY KEY (sales id),
  FOREIGN KEY (customer_id) REFERENCES AdventureWorks_DW.star_schema.d_customer (dimension_customer_id),
  FOREIGN KEY (product_id) REFERENCES AdventureWorks_DW.star_schema.d_product (dimension_product_id),
  FOREIGN KEY (date_id) REFERENCES AdventureWorks_DW.star_schema.d_date (dimension_date_id)
);
```

Create Staging Schema Tables

```
************
-- ******* CREATING STAGE TABLES ********
__ ***************
\hbox{\it --This statement creates staging dimension table stage\_dim\_customer\ with\ attributes\ and\ assigned}
-- primary key as customer_id
CREATE TABLE StagingDatabase.staging.stage_dim_customer
  customer_id INT NOT NULL,
  title varchar(10),
  first_name varchar(50),
  middle_name varchar(50),
  last_name varchar(50),
 valid_from DATETIME,
  valid_to DATETIME,
);
--This statement creates staging dimension table stage_dim_product with attributes and assigned
-- primary key as dimension_product_id
CREATE TABLE StagingDatabase.staging.stage_dim_product
  product_id INT,
  price_range_id INT,
           varchar(50),
  name
 price
          DECIMAL(10, 2),
  valid_from DATETIME,
  valid_to DATETIME,
-- Create a table which holds last update variable
CREATE TABLE StagingDatabase.staging.LastUpdate
  lastUpdate DATETIME DEFAULT GETDATE()
);
-- Inset value into LastUpdate table
INSERT INTO StagingDatabase.staging.LastUpdate(lastUpdate)
VALUES (GETDATE());
--This statement creates staging fact table stage_f_sales with attributes and assigned primary key as sales_id
CREATE TABLE StagingDatabase.staging.stage_f_sales
              INT NULL.
  customer id
              INT NULL,
  product id
              INT NULL,
  business_customer_id INT NULL,
  business_product_id INT NULL,
  business_order_date DATETIME NULL,
  quantity
               INT NULL,
               FLOAT NULL
  line_total
);
-- Create temporary table for f_sales.
CREATE TABLE StagingDatabase.staging.temp_f_sales
                INT NULL,
  customer_id
  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,
);
-- Create temporary table to store added products so we can handle valid_to attribute
CREATE TABLE StagingDatabase.staging.stage_dim_product_added
  product_id INT,
  price_range_id INT,
            varchar(50),
  name
  price
           DECIMAL(10, 2),
  valid_from DATETIME,
  valid_to DATETIME,
);
-- Create temporary table to store updated products so we can handle valid_to attribute and
-- deleting old products
CREATE TABLE StagingDatabase.staging.stage_dim_product_changed
  product_id INT,
  price_range_id INT,
  name
            varchar(50),
  price
           DECIMAL(10, 2),
  valid_from DATETIME,
  valid_to DATETIME,
);
-- Create temporary table to store updated customers so we can handle valid_to attribute and
-- deleting old customers
CREATE TABLE StagingDatabase.staging.stage_dim_customer_changed
(
  customer_id INT,
  title varchar(10)
  first_name varchar(50),
  middle_name varchar(50),
  last_name varchar(50),
  valid_from DATETIME,
  valid_to DATETIME,
-- Create temporary table to store added customers so we can handle valid to attribute
CREATE TABLE StagingDatabase.staging.stage_dim_customer_added
  customer_id INT,
  title varchar(10),
  first_name varchar(50),
  middle_name varchar(50),
  last_name varchar(50),
  valid_from DATETIME,
  valid_to DATETIME,
);
```

Initial Load

```
-- ******* INSERTING AND FIXING DATA IN STAGE TABLES ********
DELETE FROM StagingDatabase.staging.stage_f_sales;
DELETE FROM StagingDatabase.staging.stage_dim_product
DELETE FROM StagingDatabase.staging.stage_dim_customer
DELETE FROM AdventureWorks_DW.star_schema.d_product
DELETE FROM AdventureWorks_DW.star_schema.d_price_range
DELETE FROM AdventureWorks DW.star schema.d date
DELETE FROM AdventureWorks_DW.star_schema.d_customer
DELETE FROM AdventureWorks_DW.star_schema.f_sales
              ____ DATE __
--This statement inserts attribute values unto staging dimension table stage_dim_date
DECLARE @StartDate DATETIME = (SELECT MIN(OrderDate) FROM AdventureWorks2017.Sales.SalesOrderHeader);
DECLARE @EndDate DATETIME = (SELECT MAX(OrderDate) FROM AdventureWorks2017.Sales.SalesOrderHeader);
WHILE @StartDate <= @EndDate
 BEGIN
   INSERT INTO AdventureWorks_DW.star_schema.d_date (date,
                          day_name,
                          month_name)
   SELECT @StartDate,
      DATENAME(weekday, @StartDate),
      DATENAME(month, @StartDate);
   SET @StartDate = DATEADD(dd, 1, @StartDate);
 END.
                ___ Price Range ___
-- Pre-populate current_price table with this data. Data ranges will be 200
DECLARE @StartPrice decimal(10, 2) = 0.00;
DECLARE @EndPrice decimal(10, 2) = 199.99;
DECLARE @Increment decimal(10, 2) = 200.00;
DECLARE @MaxPrice decimal(10, 2) = (SELECT MAX(ListPrice)
                FROM AdventureWorks2017.Production.Product) + 200;
WHILE @EndPrice <= @MaxPrice
 BEGIN
   INSERT INTO AdventureWorks_DW.star_schema.d_price_range (start_price, end_price)
   VALUES (@StartPrice,
       @EndPrice):
   SET @StartPrice = @StartPrice + @Increment;
   SET @EndPrice = @EndPrice + @Increment;
 END
              ____ 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 'N/A' 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, price) SELECT ProductID, Name, SellStartDate, SellEndDate, ListPrice 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; -- Update reference to price range UPDATE StagingDatabase.staging.stage dim product SET price_range_id = (SELECT dimension_price_range_id FROM AdventureWorks_DW.star_schema.d_price_range WHERE price BETWEEN start_price AND end_price) WHERE price_range_id IS NULL; -- ******* 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, price_range_id, name, valid_from, valid_to) SELECT product_id, price_range_id, name, valid_from, valid_to 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) FROM StagingDatabase.staging.stage_dim_customer; ************************ -- ******* 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
     IOIN 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 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
-- 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 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;
```

Difference Calculations Product

```
-- Add new dates in D_Date if missing
DECLARE @StartDate DATETIME = (SELECT MAX(Date)
            FROM AdventureWorks_DW.star_schema.d_date);
DECLARE @EndDate DATETIME = (SELECT MAX(OrderDate)
           FROM AdventureWorks2017.Sales.SalesOrderHeader);
WHILE @StartDate <= @EndDate
 BEGIN
   INSERT INTO AdventureWorks_DW.star_schema.d_date (date,
                       day_name,
                       month name)
   SELECT @StartDate,
      DATENAME (weekday, @StartDate),
      DATENAME(month, @StartDate);
   SET @StartDate = DATEADD(dd, 1, @StartDate);
 END;
-- Search and insert newly added product into staging added product table
INSERT INTO StagingDatabase.staging.stage_dim_product_added (product_id, name, valid_from, valid_to, price)
SELECT ProductID, Name, SellStartDate, SellEndDate, ListPrice
FROM AdventureWorks2017.Production.Product
WHERE productID IN (SELECT productID
        FROM AdventureWorks2017.Production.Product
         EXCEPT
        SELECT product_id
        FROM AdventureWorks_DW.star_schema.d_product);
-- Replace all NULL values with date 31.12.9999
UPDATE StagingDatabase.staging.stage_dim_product_added
SET valid_to='9999-12-31'
WHERE valid to IS NULL:
-- Update reference to price range
UPDATE StagingDatabase.staging.stage_dim_product_added
SET price_range_id = (SELECT dimension_price_range_id
        FROM AdventureWorks DW.star schema.d price range
        WHERE price BETWEEN start price AND end price)
WHERE price_range_id IS NULL;
-- Load newly added and modified rows into the Data Warehouse
INSERT INTO AdventureWorks_DW.star_schema.d_product (product_id, price_range_id, name, valid_from, valid_to)
SELECT product_id, price_range_id, name, valid_from, valid_to
FROM StagingDatabase.staging.stage_dim_product_added;
  *************************************
-- Retrieve and update data warehouse, set valid_to attribute to yesterdays date for deleted
UPDATE AdventureWorks_DW.star_schema.d_product
SET valid_to = DATEADD(dd, -1, GETDATE())
```

```
WHERE product id in (
  SELECT product_id
  FROM AdventureWorks_DW.star_schema.d_product
  WHERE product_id IN (SELECT product_id
          FROM AdventureWorks_DW.star_schema.d_product
            EXCEPT
          SELECT productID
          FROM AdventureWorks2017.Production.Product)
)
 -- Inserting updated rows into the temporary table to handle changes
INSERT INTO StagingDatabase.staging.stage_dim_product_changed
 (product_id, name, price) (SELECT ProductID,
                Name.
                price_range_id = (SELECT dimension_price range id
                       FROM AdventureWorks DW.star schema.d price range
                       WHERE ListPrice BETWEEN start_price AND end_price)
             FROM AdventureWorks2017.Production.Product
               EXCEPT
             SELECT product id, name, d product.price range id
             FROM AdventureWorks_DW.star_schema.d_product
               EXCEPT (
                 SELECT ProductID,
                   Name.
                   price_range_id = (SELECT dimension_price_range_id
                           FROM AdventureWorks_DW.star_schema.d_price_range
                           WHERE ListPrice BETWEEN start_price AND end_price)
                 FROM AdventureWorks2017.Production.Product
                 WHERE productID IN
                   (SELECT productID
                   FROM AdventureWorks2017.Production.Product
                     EXCEPT
                   SELECT product_id
                   FROM AdventureWorks_DW.star_schema.d_product)
               ));
-- Update valid to attribute to '9999-12-31'
UPDATE StagingDatabase.staging.stage dim product changed
SET valid_to = '9999-12-31'
WHERE valid_to IS NULL;
-- Update valid from to today's date
UPDATE StagingDatabase.staging.stage_dim_product_changed
SET valid_from = GETDATE()
WHERE valid_from IS NULL;
-- Update reference to price range
UPDATE StagingDatabase.staging.stage_dim_product_changed
SET price_range_id = (SELECT dimension_price_range_id
         FROM AdventureWorks_DW.star_schema.d_price_range
         WHERE price BETWEEN start_price AND end_price)
WHERE price_range_id IS NULL;
-- Alter changed rows in Data Warehouse
UPDATE AdventureWorks_DW.star_schema.d_product
SET valid_to = DATEADD(dd, -1, GETDATE())
WHERE product_id in (SELECT product_id FROM StagingDatabase.staging.stage_dim_product_changed);
-- Insert new product to Data Warehouse
INSERT INTO AdventureWorks_DW.star_schema.d_product (product_id, price_range_id, name, valid_from, valid_to)
SELECT product_id, price_range_id, name, valid_from, valid_to
```

 $FROM\ Staging Database.staging.stage_dim_product_changed;$

-- Delete data in temporary tables

DELETE

FROM StagingDatabase.staging.stage_dim_product_changed;

DELETE

 $FROM\ Staging Database.staging.stage_dim_product_added;$

Difference Calculations

Customer

```
-- 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, Middle Name, 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
FROM StagingDatabase.staging.stage_dim_customer_added;
-- Retrieve and update data warehouse, set valid_to attribute to yesterdays date for deleted
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
```

```
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
SELECT *
FROM StagingDatabase.staging.stage_dim_customer_changed;
```

Difference Calculations Fact

Sales

```
DECLARE @LAST_UPDATE as DATETIME = (SELECT lastUpdate
               FROM StagingDatabase.staging.LastUpdate);
-- Insert newly updated rows into temp_f_sales table. Select only the ones newer than the last update.
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
  AND OrderDate > @LAST_UPDATE);
-- // Product id: 770
-- Find corresponding surrogate keys.
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
        AND valid_to = '9999-12-31')
WHERE customer_id 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
        AND valid_to = '9999-12-31')
WHERE product_id 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 data into Data Warehouse Fact Sales 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.temp_f_sales;
```

-- Update last update table with the newest date UPDATE StagingDatabase.staging.LastUpdate SET lastUpdate = GETDATE() WHERE lastUpdate = @LAST_UPDATE;

DELETE FROM StagingDatabase.staging.temp_f_sales