

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

```
CREATE TABLE star_schema.d_customer (  
dimension_customer_id INT NOT NULL,  
title varchar(10),  
first_name varchar(50) NOT NULL,  
middle_name varchar(50),  
last_name varchar(50) NOT NULL,  
PRIMARY KEY (dimension_customer_id)  
);
```

--This statement creates dimension table d_product with attributes and primary key is assigned to dimension_product_id

```
CREATE TABLE star_schema.d_product (  
dimension_product_id INT NOT NULL,  
name varchar(50) NOT NULL,  
PRIMARY KEY (dimension_product_id)  
);
```

--This statement creates dimension table d_date with attributes and primary key is assigned to dimension_date_id

```
CREATE TABLE star_schema.d_date (  
dimension_date_id INT NOT NULL,  
month_name varchar(10) NOT NULL,  
day_name varchar(10) NOT NULL,  
date 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, product_id

```
CREATE TABLE star_schema.f_sales (  
sales_id INT NOT NULL,  
customer_id INT NOT NULL,  
product_id INT NOT NULL,  
date_id INT NOT NULL,  
quantity INT NOT NULL,  
line_total real NOT NULL,  
PRIMARY KEY (sales_id),  
FOREIGN KEY (customer_id) REFERENCES star_schema.d_customer(dimension_customer_id),  
FOREIGN KEY (product_id) REFERENCES star_schema.d_product(dimension_product_id),  
FOREIGN KEY (date_id) REFERENCES star_schema.d_date(dimension_date_id)  
);
```

--This statement inserts attribute vales into dimension d_product table

```
INSERT INTO star_schema.d_product(dimension_product_id, name)(SELECT dimension_product_id, name FROM  
StagingDatabase.staging.stage_dim_product);
```

--This statement inserts attribute vales into dimension d_customer table

```
INSERT INTO star_schema.d_customer(dimension_customer_id, title, first_name, middle_name, last_name)(SELECT  
dimension_customer_id, title, first_name, middle_name, last_name FROM StagingDatabase.staging.stage_dim_customer);
```

--This statement inserts attribute vales into dimension d_date table

```
INSERT INTO star_schema.d_date(dimension_date_id, month_name, day_name, date)(SELECT * FROM  
StagingDatabase.staging.stage_dim_date);
```

--This statement inserts attribute vales into fact f_sales table

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

-- This statement returns Top seller products

```
SELECT FS.product_id, name, COUNT(*) as COUNT FROM star_schema.f_sales AS FS JOIN star_schema.d_product ON  
FS.product_id = d_product.dimension_product_id GROUP BY FS.product_id, name ORDER BY COUNT DESC;
```