

--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,
    customer_id INT NOT NULL,
    title varchar(10) NOT NULL,
    first_name varchar(50) NOT NULL,
    middle_name varchar(50) NOT NULL,
    last_name varchar(50) NOT NULL,
    valid_from DATETIME NOT NULL,
    valid_to DATETIME 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 AdventureWorks_DW.star_schema.d_product
(
    dimension_product_id INT NOT NULL IDENTITY,
    product_id INT NOT NULL,
    name varchar(50) NOT NULL,
    valid_from DATETIME NOT NULL,
    valid_to DATETIME 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 AdventureWorks_DW.star_schema.d_date
(
    dimension_date_id INT NOT NULL IDENTITY,
    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 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)
);
```