```
--creating fact product sales target



CREATE OR REPLACE TABLE Fact_ProductSalesTarget (
    DimProductID INT,
    DimTargetDateID Number(9,0),
    ProductTargetSalesQuantity FLOAT,
    CONSTRAINT Dim_ProductID_FactProductSalesTarget FOREIGN KEY (DimProductID)
REFERENCES Dim_Product(DimProductID),
    CONSTRAINT Dim_TargetDateID_FactProductSalesTarget FOREIGN KEY (DimTargetDateID)
REFERENCES Dim_Date(DATE_PKEY)
);


INSERT INTO Fact_ProductSalesTarget
(DimProductID,
 DimTargetDateID,
 ProductTargetSalesQuantity)


SELECT
    COALESCE(dp.DIMPRODUCTID,-1) AS DimProductID,
    COALESCE(dd.DATE_PKEY ,-1)AS DimTargetDateID,
    stdp.SALESQUANTITYTARGET/365 AS ProductTargetSalesQuantity
    -- in the staging product sales target, the target is yearly, to get daily targets i have divided it
by 365
FROM
    STAGING_TARGETDATAPRODUCT stdp
LEFT JOIN
```

```
    DIM_PRODUCT dp ON stdp.PRODUCTID = dp.PRODUCTID
LEFT JOIN
    DIM_DATE dd ON stdp.YEAR = dd.YEAR;
```

-- Matches each year (stdp.YEAR) from the staging table with its corresponding YEAR in the DIM_DATE table, to get granular data for all days of the year, hence joining on year and left join.

```
SELECT * FROM Fact_ProductSalesTarget;
```

-- Create the Fact_SalesActual table

```
CREATE OR REPLACE TABLE Fact_SalesActual
(

    DimProductID INT REFERENCES Dim_Product(DimProductID),
    DimStoreID INT REFERENCES Dim_Store(DimStoreID),
    DimResellerID INT REFERENCES Dim_Reseller(DimResellerID),
    DimCustomerID INT REFERENCES Dim_Customer(DimCustomerID),
    DimChannelID INT REFERENCES Dim_Channel(DimChannelID),
    DimSaleDateID number(9) REFERENCES Dim_Date(DATE_PKEY),
    DimLocationID INT REFERENCES Dim_Location(DimLocationID),
    SalesHeaderID INT,
    SalesDetailID INT,
    SaleAmount FLOAT,
    SaleQuantity INT,
```

```
    SaleUnitPrice FLOAT,
    SaleExtendedCost FLOAT,
    SaleTotalProfit FLOAT
);

INSERT INTO FACT_SALESACTUAL
(
    DimProductID,
    DimStoreID,
    DimResellerID,
    DimCustomerID,
    DimChannelID,
    DimSaleDateID,
    DimLocationID,
    SalesHeaderID,
    SalesDetailID,
    SaleAmount,
    SaleQuantity,
    SaleUnitPrice,
    SaleExtendedCost,
    SaleTotalProfit
)

SELECT
    COALESCE(dp.DimProductID, -1),--all these are foreign keys, if there are null values, then
replace it by -1
```

```
    COALESCE(ds.DimStoreID, -1),
    COALESCE(dr.DimResellerID, -1),
    COALESCE(dc.DimCustomerID, -1),
    COALESCE(dchannel.DimChannelID, -1),
    COALESCE(dd.DATE_PKEY,-1) AS DimSaleDateID,
    COALESCE(dl.DimLocationID,-1),
    sd.SALESDETAILID,
    sh.SALESHEADERID,
    sd.SALESAMOUNT,
    sd.SALESQUANTITY,
    sd.SALESAMOUNT / sd.SALESQUANTITY AS SaleUnitPrice,
    dp.PRODUCT_COST *sd.SalesQuantity AS SaleExtendedCost,
    (sd.SALESAMOUNT)-(dp.PRODUCT_COST * sd.SALESQUANTITY) AS SaleTotalProfit

FROM
STAGING_SALESHEADER sh join STAGING_SALESDETAIL sd
on sh.SALESHEADERID = sd.SALESHEADERID
LEFT JOIN
    Dim_Product dp ON sd.PRODUCTID = dp.ProductID
LEFT JOIN
    Dim_Store ds ON sh.STOREID = ds.DIMSTOREID
LEFT JOIN
    Dim_Reseller dr ON sh.RESELLERID = dr.ResellerID
LEFT JOIN
    Dim_Customer dc ON sh.CUSTOMERID = dc.CustomerID
LEFT JOIN
```

```
    Dim_Channel dchannel ON sh.CHANNELID = dchannel.ChannelID
LEFT JOIN
    Dim_Location dl ON ds.DimLocationID = dl.DimLocationID
LEFT JOIN
    Dim_Date dd ON sh.DATE = dd.DATE;

SELECT * FROM Fact_SalesActual;



--creating fact SRC sales target


CREATE OR REPLACE TABLE Fact_SRCSalesTarget (
    DimStoreID INT,
    DimChannelID INT,
    DimResellerID INT,
    DimTargetDateID Number(9,0),
    SalesTargetAmount FLOAT,
    CONSTRAINT Dim_StoreID_FactSRCSalesTarget FOREIGN KEY (DimStoreID) REFERENCES
Dim_Store(DimStoreID),
    CONSTRAINT Dim_ResellerID_FactSRCSalesTarget FOREIGN KEY (DimResellerID) REFERENCES
Dim_Reseller(DimResellerID),
    CONSTRAINT Dim_Channel_FactSRCSalesTarget FOREIGN KEY (DimChannelID) REFERENCES
Dim_Channel(DimChannelID),
    CONSTRAINT Dim_TargetDateID_FactSRCSalesTarget FOREIGN KEY (DimTargetDateID)
REFERENCES Dim_Date(DATE_PKEY)
```

```
);



INSERT INTO Fact_SRCSalesTarget
(
 DimStoreID,
 DimChannelID,
 DimResellerID,
 DimTargetDateID,
 SalesTargetAmount
 )

SELECT
   COALESCE(ds.DIMSTOREID,-1) AS DimStoreID,
   COALESCE(dc.DIMCHANNELID,-1) AS DimChannelID,
   COALESCE(dr.DIMRESELLERID,-1) AS DimResllerID,
   COALESCE(dd.DATE_PKEY,-1) AS DimTargetDateID,
   stdc.TargetSalesAmount / 365 AS SalesTargetAmount
FROM
   STAGING_TARGETDATACHANNEL stdc
LEFT JOIN
   DIM_CHANNEL dc ON stdc.ChannelName = dc.CHANNELNAME
LEFT JOIN
   Dim_Store ds ON (CASE
                    WHEN stdc.TargetName = 'Store Number 5'
                    THEN CAST('5' AS INT)
```

```
            WHEN stdc.TargetName = 'Store Number 8'
            THEN CAST('8' AS INT)
            WHEN stdc.TargetName = 'Store Number 10'
            THEN CAST('10' AS INT)
            WHEN stdc.TargetName = 'Store Number 21'
            THEN CAST('21' AS INT)
            WHEN stdc.TargetName = 'Store Number 34'
            THEN CAST('34' AS INT)
            WHEN stdc.TargetName = 'Store Number 39'
            THEN CAST('39' AS INT)
            WHEN stdc.TargetName = 'Store Number 39'
            THEN CAST('39' AS INT)
            ELSE -1
        END) = ds.StoreNumber

--the store number in the store table is in the form of 5,8,11, and in the stage target table its store number 34, hence changing names.

LEFT JOIN Dim_Reseller dr ON
        dr.ResellerName = stdc.TargetName
LEFT JOIN
   DIM_DATE dd ON stdc.Year = dd.YEAR;

select * from Fact_SRCSalesTarget;
```