Sales Analysis Project

Business Requirements

NO#	As a (role)	I want (request/demand)	So that I (user value)	Acceptance Criteria
1	Sales Manager	To get dashboard overview of internet sales	Can follow better which customers and products sells the products sell the best	Dashboard that updates data once a day
2	Sales representative	A detailed overview of internal sales per customers	Can follow up my customers that buys the most and who we can sell to	Dashboard that able to filter data from each customer
3	Sales representative	A detailed overview of internet sales per products	Can follow up the products that sells the most	A power BI dashboard that can filter data for each product
4	Sales Manager	A dashboard overview of internet sales	Follow sales over time against budget	A dashboard with graphs and KPIS comparing against budget

Data Cleansing and Transformation With SQL SQL Code for collecting, cleansing, and Transforming data Calendar:

```
SELECT
  [DateKey],
 [FullDateAlternateKey] as Date,
  [EnglishDayNameOfWeek] as day,
  [WeekNumberOfYear] as WeekNr,
 [EnglishMonthName] as Month,
  LEFT(EnglishMonthName, 3) as MonthShort,
  [MonthNumberOfYear] as Monthn,
 [CalendarQuarter] as Quarter,
  [CalendarYear] as Year
FROM
  [AdventureWorksDW2019].[dbo].[DimDate]
Where
  CalendarYear >= 2019
```

Customer Detail:

```
c.FirstName as [FistName],
   c.LastName as [LastName],
 Case c.Gender when 'M' Then 'Male' When 'F' Then 'Famale' End as Gender,
   c.DateFirstPurchase as [DateFirstPurchase],
   g.city as [CustomerCity]
 FROM
   [AdventureWorksDW2019].[dbo].[DimCustomer] as c
   Left Join dbo.DimGeography as g
 Order By CustomerKey Asc;
```

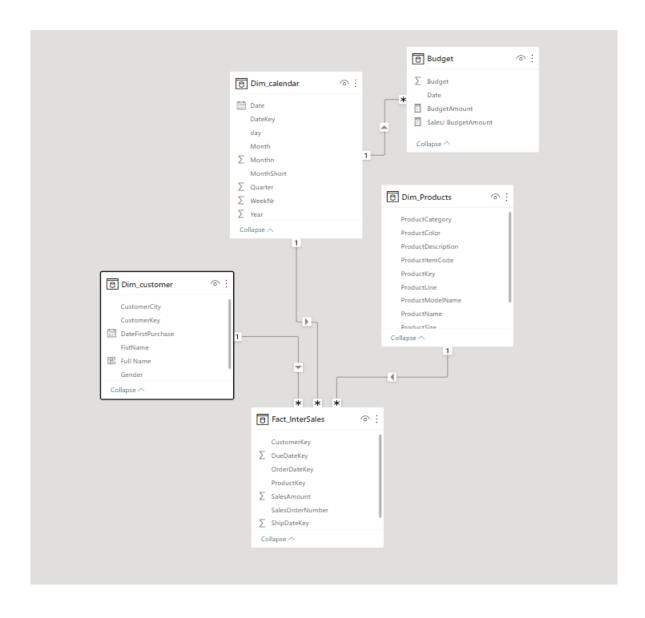
Products:

```
• • •
         p.[EnglishProductName] as ProductName,
         p.[Size] as ProductSize,
         p.[ModelName] as ProductModelName,
         p.[EnglishDescription] as ProductDescription,
          --[FrenchDescription],
--[ChineseDescription],
--[ArabicDescription],
--[HebrewDescription],
      FROM
        Left join DimProductSubcategory as ps on ps.ProductSubcategoryKey = p.ProductSubcategoryKey
Left join DimProductCategory as pc on ps.ProductCategoryKey = pc.ProductCategoryKey
      Order By
p.ProductKey Asc;
```

Sales:

```
SELECT
     [ProductKey],
     [OrderDateKey],
     [DueDateKey],
     [ShipDateKey],
     [CustomerKey],
      [SalesOrderNumber],
      [SalesAmount]
28 FROM
      [AdventureWorksDW2019].[dbo].[FactInternetSales]
    Where
      Left (OrderDateKey,4) >= YEAR(GETDATE()) -4
    Order By OrderDateKey ASC;
```

Data Model



Dashboard Overview

