Business questions for Data Profiling

-----1.Ranked order of Vendors by purchase amount $

```
SELECT  v.VendorID_SK,
        v.Name,
        SUM(poh.TotalDue) AS 'Purchase Amount',
        Rank() OVER(ORDER BY sum(poh.TotalDue) DESC) AS 'Rank'
FROM DimVendor v
INNER JOIN FactPurchases poh ON v.VendorID_SK=poh.VendorID_SK
GROUP BY v.Name,
        v.VendorID_SK;
```

-----2.Ranked order of products purchased by amount $
--i) By Category

```
 SELECT p.CategoryName,
                SUM(f.LineTotal) AS 'Purchasing Amount',
                RANK() OVER(ORDER BY SUM(f.LineTotal) DESC) AS 'Rank'
FROM DimProduct p
INNER JOIN FactPurchases f ON p.ProductID_SK=f.ProductID_SK
GROUP BY p.CategoryName;
```

--ii) By SubCategory

```
SELECT p.SubCategoryName,
           SUM(f.LineTotal) AS 'Purchasing Amount',
           RANK() OVER(ORDER BY SUM(f.LineTotal) DESC) AS 'Rank'
FROM DimProduct p
INNER JOIN FactPurchases f ON p.ProductID_SK=f.ProductID_SK
GROUP BY p.SubCategoryName;
```

--iii)By ProductModel (top 20)

```
 SELECT TOP 20 p.ModelName,
                SUM(f.LineTotal) AS 'Purchasing Amount',
                RANK() OVER(ORDER BY SUM(f.LineTotal) DESC) AS 'Rank'
FROM DimProduct p
INNER JOIN FactPurchases f ON p.ProductID_SK=f.ProductID_SK
GROUP BY p.ModelName;
```

--iv) By Product (top 20)

```
SELECT TOP 20 p.Name,
                SUM(f.LineTotal) AS 'Purchasing Amount',
                RANK() OVER(ORDER BY SUM(f.LineTotal) DESC) AS 'Rank'
FROM DimProduct p
INNER JOIN FactPurchases f ON p.ProductID_SK=f.ProductID_SK
GROUP BY p.Name;
```

-----3.List of employees who purchased products with phone, email & address

```
SELECT CONCAT(e.LastName, ' ', e.FirstName) AS 'Employee Name',
      e.EmailAddress,
      e.AddressLine1,
      e.PhoneNumber,
      SUM(f.TotalDue) AS 'Purchasing Amount'
FROM DimEmployee e
INNER JOIN FactPurchases f ON e.EmployeeID_SK=f.EmployeeID_SK
GROUP BY CONCAT(e.LastName, ' ', e.FirstName),
        e.EmployeeID_SK,
        ppp.PhoneNumber,
        pea.EmailAddress,
        pa.AddressLine1
ORDER BY SUM(f.TotalDue);
```

-----4.List of employees who purchased products with pay rate & raises (SCD)

```
SELECT CONCAT(e.LastName, ' ', e.FirstName) AS 'Employee Name',
      eph.Rate,
      eph.RateChangeDate_NK,
            eph.CurrentIndicator,
            eph.EffectiveDate,
            eph.IneffectiveDate,
      eph.ModifiedDate
FROM DimEmployee AS e
INNER JOIN DimEmployeePay AS eph ON e.EmployeeID_SK = eph.EmployeeID_Durable_SK
GROUP BY CONCAT(e.LastName, ' ', e.FirstName),
        eph.Rate
ORDER BY eph.ModifiedDate;
```

-----5.List of purchasing vendor contacts with vendor name, phone, email & address

```
SELECT v.VendorContacts_SK,
        v.Title,
        v.FirstName,
        v.MiddleName,
        v.LastName,
        v.PhoneNumber,
        v.ContactType,
        v.PhoneNumberType
        v.EmailAddress,
        v.EmailPromotion,
        ven.AddressLine1
FROM DimVendorContacts v
INNER JOIN Vendor ven ON ven.VendorID_SK=v.VendorID_SK
INNER JOIN FactPurchases f ON f.VendorID_SK=ven.VendorID_SK
GROUP BY v.FirstName,
        v.MiddleName,
        v.LastName;
```

-----6.List of product prices by product order by product and SCD effective ascending

```
 SELECT p.Name,
                pl.ListPrice,
                pl.CurrentIndicator,
                pl.EffectiveDate,
                pl.Ineffective,
                pl.ModifiedDate
FROM DimProducts_Purchased p
INNER JOIN DimProductListHistory pl ON pl.ProductID_Durable_SK=p.ProductID_SK
GROUP BY p.Name,
       pl.ListPrice,
       pl.ModifiedDate
ORDER BY pl.ModifiedDate ASC;
```

-----7.List of standard costs by product order by product and SCD effective ascending

```
SELECT p.Name,
           pch.StandardCost,
           pch.CurrentIndicator,
```

```
            pch.EffectiveDate,
            pch.IneffectiveDate,
        pch.ModifiedDate
FROM DimProduct AS p
INNER JOIN DimProductCostHistory AS pch ON pch.ProductID = pp.ProductID
GROUP BY pp.Name,
         pch.StandardCost,
         pch.ModifiedDate
ORDER BY pch.ModifiedDate ASC;
```