

## Queries:

BI Queries & results (SQL queries is fine, can use BI tools but NOT graded ON BI)

- **Ranked order of Vendors by purchase amount \$**

```
SELECT RANK() over (order by SUM(FP.TotalDue) desc) as Ranking, DV.VendorName as 'Vendor_Name',  
CONCAT('$',SUM(FP.TotalDue)) as 'Purchase_Amount'  
FROM FactPurchases as FP  
INNER JOIN DimVendors as DV  
ON FP.VendorID = DV.BusinessEntityID  
GROUP BY DV.VendorName;
```

- **Ranked order of products by amount \$**

- **By category**

```
SELECT RANK() over (order by SUM(FP.LineTotal) desc) as Ranking, DP.ProductCategoryName as 'Product Category',  
CONCAT('$',SUM(FP.LineTotal)) as 'Purchase_Amount'  
FROM FactPurchases as FP  
INNER JOIN DimProducts_Purchased as DP  
ON FP.ProductPurchasedSK = DP.ProductPurchasedSK  
GROUP BY DP.ProductCategoryName;
```

- **By subcategory**

```
SELECT RANK() over (order by SUM(FP.LineTotal) desc) as Ranking, DP.ProductSubcategoryName as 'Product  
Subcategory', CONCAT('$',SUM(FP.LineTotal)) as 'Purchase_Amount'  
FROM FactPurchases as FP  
INNER JOIN DimProducts_Purchased as DP  
ON FP.ProductPurchasedSK = DP.ProductPurchasedSK  
GROUP BY DP.ProductSubcategoryName;
```

- **By product model (top 10)**

```
SELECT Top 10 RANK() over (order by SUM(FP.LineTotal) desc) as Ranking, DP.ModelName as 'Product Model',  
CONCAT('$',SUM(FP.LineTotal)) as 'Purchase_Amount'  
FROM FactPurchases as FP  
INNER JOIN DimProducts_Purchased as DP  
ON FP.ProductPurchasedSK = DP.ProductPurchasedSK  
GROUP BY DP.ModelName;
```

- **By product (top 10)**

```
SELECT Top 10 RANK() over (order by SUM(FP.LineTotal) desc) as Ranking, DP.ProductName as 'Product Name',  
CONCAT('$',SUM(FP.LineTotal)) as 'Purchase_Amount'  
FROM FactPurchases as FP  
INNER JOIN DimProducts_Purchased as DP  
ON FP.ProductPurchasedSK = DP.ProductPurchasedSK  
GROUP BY DP.ProductName;
```

- **Ranked list of employees purchasing products amount \$**

```
SELECT RANK() over (order by SUM(FP.TotalDue) desc) as Ranking, (DE.FirstName +' '+ DE.MiddleName+' '+  
DE.LastName)as 'Employee_Full_Name', CONCAT('$',SUM(FP.TotalDue)) as 'Purchase_Amount'  
FROM FactPurchases as FP  
INNER JOIN DimEmployee as DE  
ON FP.EmployeeID = DE.BusinessEntityID  
GROUP BY DE.FirstName, DE.MiddleName, DE.LastName;
```

- **List of employees who purchased products with phONe, email & address**

```
SELECT (DE.FirstName + ' ' + DE.MiddleName + ' ' + DE.LastName) as 'Employee_Full_Name', DE.PhONe,
      DE.EmailAddress, DE.AddressLine1, DE.AddressLine2, DG.City, DG.StateProvinceName as 'State',
      DG.PostalCode
FROM FactPurchases as FP
INNER JOIN DimEmployee as DE
ON FP.EmployeeID = DE.BusinessEntityID
INNER JOIN DimGeography as DG
ON DE.GeoSK = DG.GeoSK;
```

- **List of purchasing cONtacts with vendor name, phONe, email & address**

```
SELECT (DVC.FirstName + ' ' + DVC.MiddleName + ' ' + DVC.LastName) as 'Vendor_Full_Name', DVC.PhONeNumber,
      DVC.EmailAddress, DV.AddressLine1, DV.AddressLine2, DG.City, DG.StateProvinceName as 'State', DG.PostalCode
FROM FactPurchases as FP
INNER JOIN DimVendorcONtacts as DVC
ON FP.VendorID = DVC.Vendor_BusinessEntityID
INNER JOIN DimVendors as DV
ON DVC.VendorSK = DV.VendorSK
INNER JOIN DimGeography as DG
ON DV.GeoSK = DG.GeoSK;
```